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# Validation of consumables used in the recovery of DNA evidence within Sexual Assault Referral Centres (SARCs)

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## ABSTRACT

This study assessed the fitness for purpose of consumables used for the recovery of body-fluids and biological material for subsequent DNA analysis in forensic medical examinations, specifically within Sexual Assault Referral Centres (SARCs). All 55 SARCs in England and Wales participated in this validation exercise by submitting unused critical DNA consumables from their local storage areas. Overall, 261 consumable items identified as forensic DNA grade were assessed for the presence of DNA contamination and 100 % passed testing, demonstrating that consumables purchased under the National Scenes of Crimes Consumables Contract remained fit for purpose, regarding detectable levels of DNA, up to the point of use within the SARCs. In addition, 14 non-forensic DNA grade items were analysed, of which over a third failed due to unsourced DNA contamination, highlighting why it is essential that only forensic DNA grade consumables are used for evidential recovery processes to minimise the risk of contamination.

## Introduction

It is essential that the consumables and forensic kits used in the recovery, storage, transportation and analysis of forensic evidence do not compromise the integrity of the samples collected, or adversely affect the analytical process in any way: to do so could potentially diminish the value and reliability of the forensic evidence. This in turn would increase the risk of an investigation being misled, poor judicial outcomes being made in the courts, or could even result in a miscarriage of justice, for example, false inclusions and exclusions, or a contaminant masking the true crime profile [1]. These risks have long been recognised [2] together with the consequences of contaminated consumables misleading criminal investigations [3].

DNA contamination of the consumables can potentially arise at any point during their manufacture, transportation or storage prior to use. Over several years the forensic science community has developed a good understanding of the risks of DNA contamination from consumables and how best to mitigate these including through post-production treatment to remove any contamination that could have arisen during the manufacturing and packaging processes [4,5]. This has culminated in the generation of the international standard ISO 18385:2016 'Minimising the risk of human DNA contamination in products used to collect,

store and analyse biological material for forensic purposes' [6]. A key element of this standard is the use of Ethylene Oxide (EtO) as a post-production treatment of solid consumables in the production of "forensic DNA grade" items. For items such as liquids and gels that cannot undergo this type of post-production treatment, evidence that there is no gross or systemic contamination is demonstrated by Quality Control testing, achieved through batch testing conducted as per BS ISO 3951-1 Sampling procedures for inspection by variables [7]. Recommendations for consumables have been included as part of the overall strategy for managing contamination risk within forensic laboratories [8,9] and in scene examination [10], together with introduction of DNA elimination databases where local legislation permits to assist in identifying contamination should it arise during collection and processing of samples [11,12].

Guidelines have also been developed specifically for the control and avoidance of contamination in forensic medical examinations, within SARCs and custody suites, which include use of appropriate consumables [13]. Critical consumables that come into direct contact with evidential material pose the greatest risk of contamination and therefore are required to be forensic DNA grade. Medical examination kits/individual items that fall into this high-risk category are identified in the UK in the Faculty of Forensic and Legal Medicine (FFLM) Recommendations

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for the Collection of Forensic Specimens from Complainants and Suspects [14,15]. These recommendations define a range of consumables that should be forensic DNA grade that are either individual items such as specula and proctoscopes or specific components within kits for evidential recovery.

In the light of some reported contamination issues within SARCs [16], those operating in the UK are required by the Forensic Science Regulator to become accredited to the quality standard ISO 15189:2022 Medical Laboratories: Requirements for Quality and Competence [17] and also to be assessed as compliant with relevant sections of the Forensic Science Regulator (FSR) Code of Conduct [18]. The alternative is to include in case work reports presented in court that the organisation is not compliant to these statutory requirements. This accreditation is intended to cover all aspects of the forensic recovery processes conducted within SARCs and an intrinsic part of this is providing assurance that critical DNA consumables are contamination free at the point of use.

The aim of this validation study is to provide this assurance by providing supporting data that the national provision of DNA consumables is fit for purpose and enable each participating SARC to verify up to the point of use of these consumables that they remain fit for purpose negating the need to conduct routine batch testing upon receipt of consumables.

## 2. Materials and methods

### 2.1. SARC participation

All 55 SARCs in England and Wales participated in this validation exercise that was conducted between January and March 2022.

All SARCs were required to self-declare that they had implemented documented processes for the receipt, storage and handling of consumables in accord with the requirements of ISO 15189, and relevant elements of the FSR Codes.

### 2.2. Consumables

A consumables survey was completed by each SARC in advance of the exercise, providing details of all the consumables they use, their product codes, the supplier and stock levels. Using this information, a sampling regime was devised where an average of 5 different forensic DNA grade consumables would be supplied by each individual SARC that collectively provided complete coverage of all the forensic DNA grade consumables identified in the FFLM recommendations. Some forensic DNA grade items such as distilled water vials and cotton swabs are common to a number of kits whilst other items are unique such as the comb in the hair kit.

The 19 different consumable item types that were assessed in this exercise are listed in [Appendix A](#). The item reference numbers and lot/batch numbers of specific consumables are detailed in [Appendix B](#). These represent all those required to be forensic DNA grade to minimise the risk of DNA contamination as described in the FFLM's Recommended equipment for obtaining forensic samples from complainants and suspects [14]. SceneSafe are the sole supplier to the Police National Scenes of Crime Consumables contract, which defines the specification and quality standards these consumables are required to meet. These specifications include a) compliance with the quality standard ISO18385 [6], and b) for certificates of analysis to be available for every batch of consumables released to customers.

### 2.3. Sampling and analysis

Each SARC was provided with an address and paperwork listing all of the required consumable item specific to them. Each item was collected from the SARCs internal consumables storage areas, the external packaging (either primary packaging for individual items or the outside if it was a sealed medical examination kit) was wiped down by trained staff

using the cleaner/wipes they would normally use in the examination room to ensure their surfaces were free from contamination, and then the items were placed in the collection box. Written instructions were provided in the box together with a declaration form for the SARC to confirm they were following their Consumables Standard Operating Procedure, and that staff were trained. The box was then sealed and couriered to a Forensic Science Provider (FSP) that was accredited for forensic DNA analysis.

On receipt, the FSP logged details of the items received including item numbers and batch numbers. The item packaging was checked for integrity, wiped down with water, as per their standard receipt procedures, and then entered into the DNA analytical process. Individual items were sampled as instructed in [Appendix A](#).

Extracts were processed using ISO 17025 accredited DNA-17 Next Generation Multiplex (NGM) Select analysis procedures operated by trained and competent individuals and employing appropriate anti-contamination measures, including use of forensic DNA grade materials, such that the risk of inadvertently attributing an observed contamination to the wrong origin (SARC vs FSP) was very unlikely.

## 3. Results

In total 276 consumable items were submitted by the 55 SARCs. The kit supplier SceneSafe conducted checks on the batch and lot numbers of the submitted consumables and identified the status of these consumables that were as follows:

- 261 forensic DNA grade items
- 14 non-forensic DNA grade items
- 1 item of undetermined status (batch number missing)

These consumable items were all analysed for the potential presence of contaminating DNA utilising a validated and accredited DNA-17 NGM Select analytical processes with a 60 Relative Fluorescence Units (RFU) analytical threshold.

The experimental results including allele designation and peak heights were recorded and scored on a pass/fail basis utilising the acceptance criteria for batch testing of forensic DNA consumables using STR profiling as defined in FSR-C-108 DNA Analysis: Codes of Practice and Conduct. [19]. These results were scored as follows:

- 0–1 allele (no duplicate analysis required) = Pass
- 2–3 alleles not replicated by re- Polymerase Chain Reaction (PCR) = Pass
- 2–3 alleles replicated by re-PCR = Fail
- 4+ alleles (no duplicate analysis required) = Fail

Where contamination levels constituted a fail, checks were conducted against profiles held on the FSP Staff Elimination Database (SED).

All 261 forensic DNA grade items passed testing as per the protocol defined above. 259/261 items passed on first PCR analysis with either 0 or 1 allele detected in the DNA profiles. The remaining 2 items gave 2 and 3 alleles respectively on the first analysis but subsequently passed testing on re-PCR with no alleles detected in the second analysis. These results are summarised in [Table 1](#) below and detailed information on every sample tested is provided in [Appendix B](#), with detected alleles listed in [Appendix C](#) for all contaminants observed on first amplification and on re-PCR.

These 261 forensic DNA grade items represented 19 different consumable item types sampled from 114 different batches/lots. These were manufactured and supplied to end users up to 2 years prior to this testing exercise and all were within their arbitrary use-by dates. The 100 % pass rate demonstrates that these consumables had a) been manufactured to the required forensic DNA grade standard and b) their integrity had been maintained up to the point of use by all the SARCs in

**Table 1**  
Summary of forensic DNA grade consumables test results.

| Critical Consumable Item    | No. SARCs supplying item | Range of Dates of Manufacture                 | No. of Batches/Lots            | Results Pass Rate           |
|-----------------------------|--------------------------|-----------------------------------------------|--------------------------------|-----------------------------|
| 60 ml Container             | 13                       | August 2020–November 2021                     | 9                              | 13/13 Pass                  |
| 5 & 10 ml Water Vials       | 54                       | November 2019–December 2021                   | 5                              | 56/56 Pass <sup>a</sup>     |
| Scissors                    | 5                        | August 2020–August 2021                       | 2                              | 5/5 Pass                    |
| Comb                        | 7                        | May 2021–November 2021                        | 3                              | 7/7 Pass                    |
| 110 ml Container            | 5                        | May 2021–August 2021                          | 4                              | 5/5 Pass                    |
| 450 ml Container            | 11                       | April 2021–September 2021                     | 4                              | 11/11 Pass                  |
| Forceps                     | 12                       | April 2020–November 2021                      | 7                              | 12/12 Pass                  |
| 6" Taper tip Swab           | 10                       | August 2019–August 2021                       | 5                              | 10/10 Pass                  |
| 3" Taper tip swab           | 6                        | September 2020–April 2021                     | 4                              | 6/6 Pass                    |
| Paper sheet                 | 14                       | February 2020–December 2021                   | 10                             | 16/16 Pass                  |
| Nail Clippers               | 1                        | May 2021                                      | 1                              | 1/1 Pass                    |
| Lubricant                   | 16                       | June 2021–January 2022                        | 3                              | 16/16 Pass                  |
| Tissue Paper                | 12                       | May 2020–November 2021                        | 7                              | 12/12 Pass                  |
| Speculum                    | 3                        | August 2021                                   | 2                              | 3/3 Pass                    |
| Couch cover                 | 18                       | June 2021–September 2021                      | 3                              | 18/18 Pass                  |
| Proctoscope                 | 3                        | March 2020–0120/21                            | 3                              | 3/3 Pass                    |
| Colposcope cover            | 6                        | October 2020–September 2021                   | 4                              | 6/6 Pass                    |
| Buccal Swab                 | 12                       | Not available                                 | 7                              | 12/12 Pass                  |
| Standard MW102 Swab         | 46                       | January 2020–January 2022                     | 31                             | 49/49 Pass <sup>b</sup>     |
| <b>Total: 19 Item types</b> | <b>Total: 55 SARCs</b>   | <b>Overall Range August 2019–January 2022</b> | <b>Total: 114 Lots/Batches</b> | <b>261/261 Pass overall</b> |

Notes:

<sup>a</sup> 1 item passed on re-testing: 3 alleles in 1st PCR result, 0 alleles in 2nd PCR.

<sup>b</sup> 1 item passed on re-testing: 2 alleles in 1st PCR result, 0 alleles on 2nd PCR.

England and Wales. Inevitably there were local variations in transportation and storage arrangements between SARCs: some took delivery direct from the supplier and then passed these on through one or more sub-stores prior to use; other SARCs were supplied through intermediate police procurement and storage arrangements prior to entering their own stores before entering the examination suites. Regardless, this study has shown that this variation in transportation and storage did not have a detrimental impact on the quality of the consumables ultimately used by the Forensic Healthcare Practitioners, and also demonstrated that the risk of consumables being adversely impacted by their packaging becoming compromised in transit and storage was very low.

14 of the items submitted were the right type of consumable, i.e. for critical DNA applications, but checks of the item codes by the manufacturer/supplier identified these had not been EtO-treated to a forensic DNA grade standard. This occurred due to misinterpretation of sterile consumables for forensic DNA grade by some SARCs. This was only

identified after they had been entered into the DNA analysis process, so the testing was allowed to proceed but the results were considered separately from the main body of the exercise. Their unintended inclusion proved to be very informative and the analysis results for these 14 items are shown in Table 2. 7/14 items passed on first analysis and a further 1 on re-PCR. 5 failed outright with between 7 and 37 alleles detected on first analysis and a further 1 sample that gave 3 alleles on first test subsequently failed on re-PCR. The failed items comprised a proctoscope, a speculum, 2 colposcope covers and 2 couch covers. Of the 6 fails, 3 were of a sufficient level to enable comparison against the SED held by the FSP. A 15-allele partial profile on the speculum (Item number S34-D) identified a match with a FSP staff member, who on investigation was found to have contaminated the sample by indirect transfer as they were not directly involved in processing the consumables items. 2 further items, both couch covers, displayed large numbers of contaminating peaks from more than one individual, but no match was found against the SED. According to the suppliers, manufacturing the couch covers is a labour-intensive process requiring stitching by hand, and this was the likely cause of the observed contamination of the non-EtO treated covers (S. Wiseman, SceneSafe Sales Director, personal communication). This issue was highlighted by this study and had resulted in recommendations from the FFLM, that items manufactured in this manner, including couch covers, that are used in the recovery of forensic DNA evidence should be forensic DNA grade. This update to recommendations occurred whilst this validation exercise was underway which may explain the high proportion of non-forensic DNA grade couch covers being used due to old stocks being used up during the transition.

The proctoscope failed despite it having been EtO-treated for clinical sterilisation purposes. This illustrates that not all EtO treatments are necessarily effective at DNA removal and reinforces that this must be conducted in compliance with the ISO 18385 [6] standard where a specific level of DNA removal is assured. The presence of contamination on this and other non-forensic DNA grade items also highlights the need to ensure that purchasing and labelling of consumable items are unambiguous so that non-forensic DNA grade items are not procured in error. An ideal position would be for manufacturers to only produce these items at forensic DNA grade level to avoid potential confusion and procurement errors by end-users who may simply assume that these items are always of an appropriate quality standard.

Detailed information on every sample tested is provided in Appendix B and C. Overall, if the sample that was contaminated during the DNA process is discounted, the measured contamination rate of the non-

**Table 2**  
Non-forensic DNA grade consumables test results.

| SARC Item Number | Item             | PCR 1 Allele Count | PCR 2 Allele Count | Result (Pass/Fail) | Contamination Assessment |
|------------------|------------------|--------------------|--------------------|--------------------|--------------------------|
| S28-B            | 110 ml Container | 0                  | n/a                | Pass               | n/a                      |
| S09-A            | Couch Cover      | 0                  | n/a                | Pass               | n/a                      |
| S27-D            | Couch Cover      | 0                  | n/a                | Pass               | n/a                      |
| S22-D            | Couch Cover      | 0                  | n/a                | Pass               | n/a                      |
| S52-D            | Couch Cover      | 1                  | n/a                | Pass               | n/a                      |
| S34-E            | Proctoscope      | 0                  | n/a                | Pass               | n/a                      |
| S40-B            | Forceps          | 0                  | n/a                | Pass               | n/a                      |
| S26-C            | Couch Cover      | 2                  | 1                  | Pass on re-PCR     | n/a                      |
| S02-E            | Proctoscope      | 3                  | 4                  | Fail on re-PCR     | Too low level to search  |
| S34-D            | Speculum         | 15                 | n/a                | Fail               | FSP staff match          |
| S06-E            | Couch Cover      | 37                 | n/a                | Fail               | No staff match           |
| S02-C            | Couch Cover      | 28                 | n/a                | Fail               | No staff match           |
| S40-D            | Colposcope Cover | 7                  | n/a                | Fail               | Too low level to search  |
| S48-C            | Colposcope Cover | 9                  | n/a                | Fail               | Too low level to search  |

forensic DNA grade consumables was 5/13 or 38.5 %.

The one item submitted for which forensic DNA grade status was undetermined (item no. S41-E) passed on first PCR analysis and was not considered further in this assessment.

#### 4. Discussion

Testing consumables for the presence of contamination is technically challenging given the sensitivity of current multiplex PCR analysis systems. Unless the most stringent analytical conditions are applied including for example using items such as scissors and forceps in the preparation and testing of the consumable that are in themselves also forensic DNA grade items, then there is a risk that the analytical process itself could potentially introduce contamination and for this to be incorrectly attributed to an otherwise DNA -free consumable. The acceptance criteria as defined in FSR-C-108 [19] for batch testing consumables permit some uncertainty in the test results; the presence of no more than 1 allele observed above the analytical threshold on the first analysis is scored as a pass. This leeway is a pragmatic acceptance of the high sensitivity of the DNA profiling technique which is susceptible to detecting random allele drop-in events arising during the analysis process. This is exemplified by for example 2 of the extraction negative controls in this validation exercise containing single contaminating alleles (Appendix B). The majority (243/261) of the forensic DNA grade items did not generate any alleles above the analytical threshold. However, single alleles were observed in 17/261 of the forensic DNA grade items. The remaining 2 items yielded 2 and 3 alleles respectively which could also be attributed to random drop-in events because both subsequently yielded zero alleles on re-PCR, thereby meeting the stipulated acceptance criteria. Furthermore, on average > 13 replicate analyses of each item type were undertaken, sampled from across the stores of 55 SARC, which provides further assurance of the reproducibility and robustness of the test results. These outcomes correlate well with the dip testing results of hundreds of forensic DNA grade items conducted by UK Police Forces since 2014 that have been collated by the FCN (unpublished results). These results included some SARC consumables, and this testing has never triggered a recall event where contamination is confirmed. This brings into question the effectiveness of dip testing by end-users as an anti-contamination assurance measure and highlights why it was necessary to create bespoke manufacturing standards for forensic DNA consumables [1,6]. The conundrum that these standards address is that where contamination occurs of solid consumables such as plastic tubes or cotton swabs, this is typically heterogeneous, sporadic and low level in nature, caused for example through a random drop-in event of DNA into or onto an individual item during manufacture/packaging. Dip testing is an ineffective measure under these circumstances: individual negative or positive results tell you essentially nothing about other items in the batch. The only way to guarantee that a specific individual solid consumable item is not contaminated is to test it, which of course consumes the consumable because they are single use items. The means of overcoming this problem is described in Publicly Available Specification (PAS) 377:2023 [1] and BS EN ISO 18385:2016 [6] in which each batch of consumables is subject to post-manufacture treatment with EtO gas, in which quantified DNA internal quality controls are included within each batch. After treatment, the controls are re-quantified and the standards require that a 1000-fold DNA dosage reduction of the multiple internal DNA controls is achieved, which in turn means that all items in the batch will have been subject to the same DNA dosage level reduction.

The ISO 15189 [17] standard to which UK SARCs are required to become accredited stipulates that each new lot or shipment of consumables shall be verified for performance before being placed into use. Furthermore, the standard states that verification can sometimes be based on the certificate of analysis of the reagent. This is precisely what is undertaken for every batch of forensic DNA grade consumables used by SARCs; the DNA positive controls within each batch of EtO treated

consumables are independently tested to demonstrate the required DNA dosage reduction levels have been met before the batch is released to end-users. Therefore, SARC compliance with the ISO 15189 [17] requirement for ongoing verification of consumables performance is met by (1) checking on receipt that every batch has an associated certificate of analysis of compliance to the international standard BS EN ISO18385:2016 [6] and (2) undertaking a visual check that neither the primary packaging nor the external packaging have become compromised in transit. These combined measures provide effective and meaningful assurance that the consumables are fit for purpose, unlike end user batch acceptance testing which the latest FSR Code [18] explicitly states that SARCs are not required to undertake if DNA grade consumables are used. This assurance approach also applies equally to other forensic science sectors beyond medical examination that use forensic DNA grade consumables, including DNA laboratories and crime scene investigation for which assurance of fitness for purpose of the consumables is required for compliance with both ISO 17025 [20] and ISO 17020 [21] standards respectively.

Ensuring appropriate consumables are used is one of several factors that need to be considered. Each SARC should conduct its own risk assessment of their DNA anti-contamination measures in order to satisfy themselves that all risks have been identified and mitigated appropriately. This includes effective handling and cleaning processes to prevent contamination from the environment or cross contamination from other exhibits, and use of PPE to minimise risk of operators contaminating exhibits with their own DNA. The latter is safeguarded against by routine checks of evidential DNA profiles against staff elimination databases of manufacturing, SARC and FSP personnel to detect operator contamination, as was observed in this validation exercise.

Prior to this national validation exercise the term 'forensic DNA grade' was not fully understood within all SARCs, this became apparent by the inclusion of the 14 non forensic DNA grade consumables in this validation. There was value in testing these items as it demonstrated that A) Sterile consumables do not provide the assurances required to effectively reduce the potential level of DNA present on consumables. B) Consumables which involve an element of handling during the manufacturing process should be forensic DNA grade if involved in the recovery of forensic DNA evidence. C) The importance of staff DNA held on an elimination database as staff contamination is possible even in a highly anticontamination regulated environment. To address A and B SceneSafe no longer supply non forensic DNA grade versions of forensic DNA critical consumables used in SARCs.

#### 5. Conclusion

This validation exercise demonstrated that the forensic DNA grade consumables provided to and used by SARCs in England and Wales for the recovery and storage of DNA evidence were fit for purpose. 100 % of these items met acceptance criteria for DNA cleanliness. In direct contrast 38.5 % of the non-forensic DNA grade items failed testing, highlighting that there is a risk of evidential contamination if the consumables used are not of the required grade. The risk that compromised consumables may be inadvertently used should be mitigated by (1) undertaking checks on receipt that every batch of consumables has an associated certificate of analysis of compliance to the international standard BS EN ISO 18385:2016 [6], and (2) undertaking a visual check that neither the primary packaging nor the external packaging have become compromised in transit.

#### CRedit authorship contribution statement

**Michelle Gaskell:** Writing – review & editing, Writing – original draft, Project administration, Methodology, Funding acquisition, Data curation, Conceptualization. **June Guinness:** Writing – review & editing, Methodology, Conceptualization. **Kevin Sullivan:** Writing – review & editing, Methodology, Conceptualization.

## Declaration of competing interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

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## Appendix

### Appendix A. Consumables and Sampling Instructions

| Test Items                           | Supplied in Kit/Individual item                                                                                                                                                             | Sampling Instructions                                  |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>5 ml and 10 ml Water Ampoules</b> | Penile Swab Kit<br>Standard Swab Kit<br>Hand Swab Kit<br>Early Evidence Kit<br>Mouth Collection<br>Vaginal Swab Kit<br>Individual Water Ampoule-<br>Anal Swab Kit-<br>Nail Collection Kit - | Aliquot 100 µl from water ampoule for DNA analysis     |
| <b>Scissors</b>                      | Hair Collection Kit - FSP to remove Scissors for test                                                                                                                                       | Swab blades                                            |
| <b>Comb</b>                          | Hair Collection Kit - FSP to remove Comb for test                                                                                                                                           | Swab teeth                                             |
| <b>60 ml Container</b>               | Mouth Collection Kit<br>Early Evidence Kit                                                                                                                                                  | Swab inside surfaces                                   |
| <b>110 ml Container</b>              | Condom Collection Kit                                                                                                                                                                       |                                                        |
| <b>450 ml Container</b>              | Sanitary Wear Collection Kit                                                                                                                                                                |                                                        |
| <b>Forceps</b>                       | Condom Collection Kit                                                                                                                                                                       | Swab tips and shank                                    |
| <b>Paper Sheet</b>                   | Hair Collection Kit<br>Hair Collection Kit<br>Nail Collection Kit<br>Early Evidence Kit<br>Urine Collection Kit                                                                             | Remove 2–3 cm <sup>2</sup> section of paper            |
| <b>Tissue Paper</b>                  | Early Evidence Kit                                                                                                                                                                          |                                                        |
| <b>Nail Clippers</b>                 | Nail Collection Kit-                                                                                                                                                                        | Swab cutting blades                                    |
| <b>Lubricant</b>                     | Lubricant- individual sachet<br>Anal Swab Kit<br>Vaginal Swab Kit                                                                                                                           | Swab dipped into lubricant                             |
| <b>Speculum</b>                      | Speculum                                                                                                                                                                                    | Swab insertion ends                                    |
| <b>Proctoscope</b>                   | Proctoscope                                                                                                                                                                                 |                                                        |
| <b>Couch Cover</b>                   | Couch Cover Kit                                                                                                                                                                             | Swab approximately 10 cm <sup>2</sup>                  |
| <b>Colposcope Cover</b>              | Colposcope Cover                                                                                                                                                                            |                                                        |
| <b>Buccal Swab</b>                   | Elimination Kit                                                                                                                                                                             | Swab head to be removed and extracted for DNA directly |
| <b>Standard MW102 Swab</b>           | Vaginal Swab Kit<br>Anal Swab Kit<br>Standard Swab Kit<br>Mouth Collection Kit                                                                                                              |                                                        |
| <b>MWSCS 6" Taper tip swab</b>       | Penile Swab Kit<br>Nail Collection Kit<br>Early Evidence Kit                                                                                                                                |                                                        |
| <b>3" Taper tip swab</b>             | Hand Swab Kit<br>Fingernails Samples Kit                                                                                                                                                    |                                                        |

### Appendix B. All DNA Test Results for each SARC

| SARC No. | SARC item number | Item ref.      | Description                              | Lot number of kit | Date of manufacture | Batch/Lot number of specific item | Quant score (ng/µl) | PCR 1 Allele Count | PCR 2 Allele Count | Result (Pass/Fail) | Forensic DNA Grade |
|----------|------------------|----------------|------------------------------------------|-------------------|---------------------|-----------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| S01      | S01-A            | F60421-ETO     | Mouth Collection Kit:<br>60 ml Container | 76763             | April 27, 2021      | 75451                             | 0                   | 1                  |                    | Pass               | Yes                |
|          | S01-B            | B2711-ETO Swab | Vaginal Swab Kit: Swab                   | 80316             | January 04, 2022    | 21K19                             | 0                   | 2                  | 0                  | Pass               | Yes                |
|          | S01-C            | B24512 Water   | Penile Swab Kit: Water                   | 79413             | November 02, 2021   | S1120-10                          | 0                   | 0                  |                    | Pass               | Yes                |

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(continued)

| SARC No. | SARC item number | Item ref.           | Description                                    | Lot number of kit | Date of manufacture | Batch/Lot number of specific item | Quant score (ng/μl) | PCR 1 Allele Count | PCR 2 Allele Count | Result (Pass/Fail) | Forensic DNA Grade |
|----------|------------------|---------------------|------------------------------------------------|-------------------|---------------------|-----------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| S02      | S01-D            | B21809-ETO Forceps  | Condom Collection Kit: Forceps                 | 73836             | November 18, 2020   | 69948                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S01-E            | B22715-ETO Swab     | Nail Collection Kit: Swab                      | 78215             | July 28, 2021       | 21F07                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S02-A            | B24512 Water        | Standard Swab Kit: Water                       | 78938             | September 16, 2021  | S1120-10                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S02-B            | B22720-ETO Swab     | Hand Swab Kit: Swab                            | 72707             | September 17, 2020  | 19J16                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S02-C            | G91613-L/B26409     | Couch Cover Kit: Couch Cover                   | 78997             | September 17, 2020  | 78997                             | 0.001               | 28                 |                    | Fail               | No                 |
| S03      | S02-D            | B21809-ETO Forceps  | Condom Collection Kit: Forceps                 | 70620             | April 01, 2020      | 69948                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S02-E            | B22507              | Medium Proctoscope                             | 210402            | unknown             | 210402                            | 0                   | 3                  | 4                  | Fail               | No                 |
|          | S03-A            | B22711-ETO Swab     | Standard Swab Kit: Swab                        | 79071             | September 22, 2021  | 21H03                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S03-B            | B22711-ETO Swab     | Anal Swab Kit: Swab                            | 77024             | May 12, 2021        | 20L02                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S03-C            | B22298-ETO Paper    | Hair Collection Kit: Paper                     | 69241             | February 05, 2020   | W470395                           | 0                   | 0                  |                    | Pass               | Yes                |
| S04      | S03-D            | B24512 Water        | Standard Swab Kit: Water                       | 79071             | September 22, 2021  | S1120-10                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S04-A            | B22711-ETO Swab     | Mouth Collection: Swab                         | 78639             | August 24, 2021     | 21F21                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S04-B            | F60500-ETO          | Sanitary Wear Collection Kit: 450 ml container | 77525             | June 15, 2021       | 76844                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S04-C            | B24511 Water        | Standard Swab Kit: Water                       | 79440             | November 02, 2021   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S04-D            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 79024             | September 20, 2021  | 79024                             | 0                   | 0                  |                    | Pass               | Yes                |
| S05      | S04-E            | B22301-ETO Paper    | Hair Collection Kit: Paper                     | 76871             | May 04, 2021        | 75050                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S05-A            | F60421-ETO          | Mouth Collection Kit: 60 ml container          | 78184             | July 26, 2021       | 77083                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S05-B            | B22711-ETO Swab     | Anal Swab Kit: Swab                            | 77474             | June 10, 2021       | 20L30                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S05-C            | B24511 Water        | Standard Swab Kit: Water                       | 79437             | November 02, 2011   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S05-D            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 78497             | August 17, 2021     | 78497                             | 0                   | 0                  |                    | Pass               | Yes                |
| S06      | S05-E            | B22500 Buccal Swab  | Elimination Kit: Buccal Swab                   | 207012002         | unknown             | J129                              | 0                   | 0                  |                    | Pass               | Yes                |
|          | S06-A            | F60421-ETO          | Mouth Collection Kit: 60 ml Container          | 77667             | June 24, 2021       | 010326 76026                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S06-B            | B24511 Water        | Standard Swab Kit: Water                       | 78999             | September 17, 2021  | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S06-C            | B22711-ETO Swab     | Penile Swab Kit: Swab                          | 77378             | June 04, 2021       | 20L16                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S06-D            | B22500 Buccal Swab  | Elimination Kit: Buccal Swab                   | 217032102         | unknown             | J2030                             | 0                   | 0                  |                    | Pass               | Yes                |
| S07      | S06-E            | G91613-L/B26409     | Couch Cover Kit: Couch Cover                   | 78251             | July 30, 2021       | 78251                             | 0.002               | 37                 |                    | Fail               | No                 |
|          | S07-A            | B22711-ETO Swab     | Standard Swab Kit: Swab                        | 77865             | July 05, 2021       | 21CO1                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S07-B            | D41112-VAL          | Vaginal Swab Kit: Lubricant                    | 77910             | July 08, 2021       | 1021 CQ05                         | 0                   | 0                  |                    | Pass               | Yes                |
|          | S07-C            | B24512 Water        | Hand Swab Kit: Water                           | 75548             | February 16, 2021   | S1120-10                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S07-D            | B21913-ETO Forceps  | Hair Collection Kit: Forceps                   | 77708             | June 25, 2021       | 74382                             | 0                   | 0                  |                    | Pass               | Yes                |
| S08      | S07-E            | F60421-ETO          | Mouth Collection Kit: 60 ml container          | 72250             | August 20, 2020     | 70500                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S08-A            | B24511 Water        | Standard Swab Kit: Water                       | 78638             | August 24, 2021     | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S08-B            | D41112-VAL          | Anal Swab Kit: Lubricant                       | 77819             | July 02, 2021       | 1021 CQ05                         | 0                   | 0                  |                    | Pass               | Yes                |

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| SARC No. | SARC item number | Item ref.           | Description                                    | Lot number of kit | Date of manufacture | Batch/Lot number of specific item | Quant score (ng/μl) | PCR 1 Allele Count | PCR 2 Allele Count | Result (Pass/Fail) | Forensic DNA Grade |
|----------|------------------|---------------------|------------------------------------------------|-------------------|---------------------|-----------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
|          | S08-C            | B22711-ETO Swab     | Mouth Collection Kit: Swab                     | 74841             | January 12, 2021    | 20F15                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S08-D            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 79024             | September 20, 2021  | 79024                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S08-E            | F60500-ETO          | Sanitary Wear Collection Kit: 450 ml container | 78465             | August 17, 2021     | 77999                             | 0                   | 0                  |                    | Pass               | Yes                |
| S09      | S09-A            | G91613-L/B26409     | Couch Cover Kit: Couch Cover                   | 76467             | April 08, 2021      | 76467                             | 2E-04               | 0                  |                    | Pass               | No                 |
|          | S09-C            | F60500-ETO          | Sanitary Wear Collection Kit: 450 ml container | 76808             | April 28, 2021      | 73280                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S09-D            | B24512 Water        | Early Evidence Kit: Water                      | 75551             | February 16, 2021   | S1120-11                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S09-E            | B22500 Buccal Swab  | Elimination Kit: Buccal Swab                   | 220012002         | unknown             | J1292022-04                       | 0                   | 0                  |                    | Pass               | Yes                |
| S10      | S10-A            | B24511 Water        | Standard Swab Kit: Water                       | 79406             | November 02, 2021   | S0521-5                           | 0                   | 1                  |                    | Pass               | Yes                |
|          | S10-B            | B22711-ETO Swab     | Anal Swab Kit: Swab                            | 78774             | September 03, 2021  | 21F14                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S10-C            | B22297-ETO          | Urine Collection Kit: Tissue Paper             | 79873             | November 29, 2021   | 020926 78892                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S10-D            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 78497             | August 17, 2021     | 78497                             | 0                   | 1                  |                    | Pass               | Yes                |
|          | S10-E            | F60500-ETO          | Sanitary Wear Collection Kit: 450 ml container | 78778             | September 03, 2021  | 77999 090626                      | 0                   | 0                  |                    | Pass               | Yes                |
| S11      | S11-A            | B22711-ETO Swab     | Mouth Collection Kit: Swab                     | 73206-S0719-10    | October 15, 2020    | 20B03                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S11-B            | B24511 Water        | Hand Swab Kit: Water                           | 78392             | August 11, 2021     | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S11-C            | D41112-VAL          | Vaginal Swab Kit: Lubricant                    | 79952             | December 03, 2021   | 5161 CQ03                         | 0                   | 0                  |                    | Pass               | Yes                |
|          | S11-D            | B22711-ETO Swab     | Hand Swab Kit: Swab                            | 78392             | August 11, 2021     | 21E10                             | 1E-04               | 0                  |                    | Pass               | Yes                |
|          | S11-E            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 79024             | September 20, 2021  | 79024                             | 0                   | 0                  |                    | Pass               | Yes                |
| S12      | S12-A            | B24511Water         | Mouth Collection Kit: Water                    | 77864             | July 05, 2021       | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S12-B            | D41112-VAL          | Vaginal Swab Kit: Lubricant                    | 79952             | December 03, 2021   | 5161 CQ03                         | 0                   | 0                  |                    | Pass               | Yes                |
|          | S12-C            | B21913-ETO Scissor  | Hair Collection Kit: Scissors                  | 76776             | 27/04/021           | 63442                             | 0                   | 1                  |                    | Pass               | Yes                |
|          | S12-D            | B22720-ETO Swab     | Nail Collection Kit: Swab                      | 76774             | April 27, 2021      | 20F08                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S12-E            | F60500-ETO          | Sanitary Wear Collection Kit: 450 ml container | 77664             | June 24, 2021       | 77011                             | 1E-04               | 0                  |                    | Pass               | Yes                |
| S13      | S13-A            | B22711-ETO Swab     | Mouth Collection Kit: Swab                     | 72250             | August 20, 2020     | 20D08                             | 0                   | 1                  |                    | Pass               | Yes                |
|          | S13-B            | B24512 Water        | Standard Swab Kit: Water                       | 71851             | July 27, 2020       | S0719-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S13-C            | B21908-ETO Forceps  | Hair Collection Kit: Forceps                   | 76871             | May 04, 2021        | 74382                             | 1E-04               | 0                  |                    | Pass               | Yes                |
|          | S13-D            | B22298-ETO Paper    | Nail Collection Kit: Paper                     | 71058             | May 21, 2020        | 69215                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S13-E            | B22715-ETO Swab     | Nail Collection Kit: Swab                      | 71058             | May 21, 2020        | 19C26                             | 1E-04               | 0                  |                    | Pass               | Yes                |
| S14      | S14-A            | B22711-ETO Swab     | Standard Swab Kit: Swab                        | 79173             | September 30, 2021  | 21F29                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S14-B            | B24511 Water        | Anal Swab Kit: Water                           | 78774             | September 03, 2021  | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S14-C            | D41112-VAL          | Vaginal Swab Kit: Lubricant                    | 78601             | August 23, 2021     | 5021 CQ02                         | 0                   | 0                  |                    | Pass               | Yes                |
|          | S14-D            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 78497             | August 17, 2021     | 78497                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S14-E            | B22297-ETO          | Urine Collection Kit: Toilet Tissue Paper      | 79648             | November 15, 2021   | 78659                             | 0                   | 0                  |                    | Pass               | Yes                |

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| SARC No. | SARC item number | Item ref.           | Description                                    | Lot number of kit | Date of manufacture | Batch/Lot number of specific item | Quant score (ng/μl) | PCR 1 Allele Count | PCR 2 Allele Count | Result (Pass/Fail) | Forensic DNA Grade |
|----------|------------------|---------------------|------------------------------------------------|-------------------|---------------------|-----------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| S15      | S15-A            | B22711-ETO Swab     | Vaginal Swab Kit: Swab                         | 78601             | August 23, 2021     | 21E26                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S15-B            | B22298-ETO Paper    | Nail Collection Kit: Paper                     | 74699             | January 06, 2021    | 73437 W483325                     | 0                   | 0                  |                    | Pass               | Yes                |
|          | S15-C            | B22507-ETO          | Proctoscope                                    | 69960             | March 14, 2020      | 19C04 B169960                     | 0                   | 0                  |                    | Pass               | Yes                |
|          | S15-D            | B22523-ETO          | Speculum                                       | 63670             | unknown             | 63670                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S15-E            | B24511 Water        | Standard Swab Kit: Water                       | 78378             | August 10, 2021     | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
| S16      | S16-A            | B22711-ETO Swab     | Standard Swab Kit: Swab                        | 75322             | February 03, 2021   | 20H11                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S16-B            | F60421-ETO          | Mouth Collection Kit 60 ml container           | 76514             | April 13, 2021      | 74721                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S16-C            | B24511 Water        | Standard Swab Kit: Water                       | 78378             | August 10, 2021     | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S16-D            | F60424              | Condom Collection Kit: 110 ml container        | 77765             | June 30, 2021       | 76310                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S16-E            | B22301-ETO Paper    | Nail Collection Kit: Paper                     | 78467             | August 17, 2021     | 78086 W500965                     | 0                   | 0                  |                    | Pass               | Yes                |
| S17      | S17-A            | F60500-ETO          | Sanitary Wear Collection Kit: 450 ml container | 77664             | June 24, 2021       | 77011 081225                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S17-B            | B24511 Water        | Mouth Collection: Water                        | 76920             | May 06, 2021        | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S17-C            | B21710-ETO Comb     | Hair Collection Kit: Comb                      | 77708             | June 25, 2021       | 77080 190226                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S17-D            | B22715-ETO Swab     | Nail Collection Kit: Swab                      | 78467             | August 17, 2021     | 21F07                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S17-E            | B22500 Buccal Swab  | Elimination Kit: Buccal Swab                   | 204112102         | unknown             | G316 20230228                     | 1E-04               | 0                  |                    | Pass               | Yes                |
| S18      | S18-A            | B24511 Water        | Mouth Collection Kit: Water                    | 77069             | May 14, 2021        | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S18-B            | B22711-ETO Swab     | Standard Swab Kit: Swab                        | 77519             | June 15, 2021       | 20L30                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S18-C            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 79024             | September 20, 2021  | 79024                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S18-D            | B21810 Forceps      | Condom Collection Kit: Forceps                 | 75886             | March 03, 2021      | No Sticker                        | 1E-04               | 0                  |                    | Pass               | Yes                |
|          | S18-E            | B22500              | Elimination Kit: Buccal Swab                   | 221092002         | unknown             | D280                              | 0                   | 0                  |                    | Pass               | Yes                |
| S19      | S19-A            | F60421-ETO          | Mouth Collection Kit: 60 ml Container          | 79436             | November 02, 2021   | 78169 010726                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S19-B            | D41112-VAL          | Anal Swab Kit: Lubricant                       | 77819             | July 02, 2021       | 1021 CQ05                         | 0                   | 0                  |                    | Pass               | Yes                |
|          | S19-C            | B22711-ETO Swab     | Penile Swab Kit: Swab                          | 78673             | August 27, 2021     | 21F14                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S19-D            | B24511 Water        | Hand Swab Kit: Water                           | 78049             | July 16, 2021       | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S19-E            | B21908-ETO Forceps  | Hair Collection Kit: Forceps                   | 76871             | May 04, 2021        | 74382 W487608                     | 0                   | 0                  |                    | Pass               | Yes                |
| S20      | S20-C            | B21913-ETO Scissor  | Hair Collection Kit: Scissors                  | 72070             | August 10, 2020     | W063442                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S20-A            | B22711-ETO Swab     | Standard Swab Kit: Swab                        | 79440             | November 02, 2021   | 21H10                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S20-B            | B24511 Water        | Standard Swab Kit: Water                       | 79440             | November 02, 2021   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S20-F            | B22715-ETO Swab     | Nail Collection Kit: Swab                      | 72074             | August 10, 2020     | 18J24                             | 1E-04               | 1                  |                    | Pass               | Yes                |
|          | S20-E            | B22297-ETO          | Urine Collection Kit: Tissue Paper             | 78537             | August 18, 2021     | 77686                             | 0                   | 0                  |                    | Pass               | Yes                |
| S21      | S21-A            | B24512 Water        | Mouth Collection Kit: Water                    | 79436             | November 02, 2021   | S1120-10                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S21-B            | B22711-ETO Swab     | Standard Swab Kit: Swab                        | 78378             | August 10, 2021     | 21E04                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S21-C            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 78497             | August 17, 2021     | 78497                             | 0                   | 0                  |                    | Pass               | Yes                |

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| SARC No. | SARC item number | Item ref.           | Description                                    | Lot number of kit | Date of manufacture | Batch/Lot number of specific item | Quant score (ng/μl) | PCR 1 Allele Count | PCR 2 Allele Count | Result (Pass/Fail) | Forensic DNA Grade |
|----------|------------------|---------------------|------------------------------------------------|-------------------|---------------------|-----------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
|          | S21-D            | B22297-ETO          | Urine Collection Kit: Tissue Paper             | 78464             | August 17, 2021     | 77394                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S21-E            | B22500 Buccal Swab  | Elimination Kit: Buccal Swab                   | 227012102         | unknown             | D280                              | 0                   | 1                  |                    | Pass               | Yes                |
| S22      | S22-A            | F60421-ETO          | Mouth Collection Kit: 60 ml Container          | 78639             | August 24, 2021     | 010726 77877                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S22-B            | B22711-ETO Swab     | Hand Swab Kit: Swab                            | 77246             | May 24, 2021        | 20L02                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S22-C            | B22301-ETO Paper    | Nail Collection Kit: Paper                     | 78467             | August 17, 2021     | 77797 W500496                     | 0                   | 0                  |                    | Pass               | Yes                |
|          | S22-D            | G91613-L/B26409     | Couch Cover Kit: Couch Cover                   | 77247             | May 24, 2021        | 77247                             | 0                   | 0                  |                    | Pass               | No                 |
|          | S22-E            | B24511 Water        | Early Evidence Kit: Water                      | 79725             | November 16, 2021   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
| S23      | S23-A            | B24511 Water        | Mouth Collection Kit: Water                    | 67893             | November 28, 2019   | S0719-10                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S23-B            | B22298-ETO Paper    | Hair Collection Kit: Paper                     | 71337             | June 15, 2020       | 69215                             | 2E-04               | 0                  |                    | Pass               | Yes                |
|          | S23-C            | B22715-ETO Swab     | Nail Collection Kit: Swab                      | 73412             | October 27, 2020    | 19C26                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S23-D            | B22297-ETO          | Early Evidence Kit: Tissue paper               | 73303             | October 21, 2020    | 69219                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S23-E            | F60421-ETO          | Mouth Collection Kit: 60 ml Container          | 73303             | October 21, 2020    | 72330                             | 0                   | 0                  |                    | Pass               | Yes                |
| S24      | S24-A            | B24511 Water        | Vaginal Swab Kit: Water                        | 77910             | July 08, 2021       | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S24-B            | F60500-ETO          | Sanitary Wear Collection Kit: 450 ml container | 78465             | August 17, 2021     | 77999 090626                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S24-C            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 78497             | August 17, 2021     | N/A                               | 0                   | 1                  |                    | Pass               | Yes                |
|          | S24-D            | D41112-VAL          | Lubricant sachet                               | 77353             | June 03, 2021       | 5021 CQ02                         | 0                   | 0                  |                    | Pass               | Yes                |
|          | S24-E            | B22711-ETO Swab     | Standard Swab Kit: Swab                        | 74939             | January 15, 2021    | 20G21                             | 0                   | 0                  |                    | Pass               | Yes                |
| S25      | S25-A            | B22711-ETO Swab     | Anal Swab Kit: Swab                            | 76749             | April 26, 2021      | 20K05                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S25-B            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 79024             | September 20, 2021  | 79024                             | 0                   | 1                  |                    | Pass               | Yes                |
|          | S25-C            | B22297-ETO          | Urine Collection Kit: Tissue Paper             | 79873             | November 29, 2021   | 78659                             | 0                   | 1                  |                    | Pass               | Yes                |
|          | S25-D            | B22500 Buccal Swab  | Elimination Kit: Buccal Swab                   | 221092002         | unknown             | D280                              | 0                   | 0                  |                    | Pass               | Yes                |
|          | S25-E            | B24511 Water        | Water ampoule                                  | s1120-5           | unknown             | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
| S26      | S26-A            | B24511 Water        | Anal Swab Kit: Water                           | 78774             | September 03, 2021  | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S26-B            | D41112-VAL          | Vaginal Swab Kit: Lubricant                    | 78601             | August 23, 2021     | 5021 CQ02                         | 0                   | 0                  |                    | Pass               | Yes                |
|          | S26-C            | B26409              | Couch Cover Kit: Couch Cover                   | 76627             | unknown             | 76627                             | 1E-04               | 2                  | 1                  | Pass               | No                 |
|          | S26-D            | B22500 Buccal Swab  | Elimination Kit: Buccal Swab                   | 227062002         | unknown             | D280                              | 0                   | 0                  |                    | Pass               | Yes                |
|          | S26-E            | B22711-ETO Swab     | Penile Swab Kit: Swab                          | 79159             | September 30, 2021  | 21F29                             | 0                   | 0                  |                    | Pass               | <u>Yes</u>         |
| S27      | S27-A            | B24511 Water        | Standard Swab Kit: Water                       | 62757             | February 11, 2019   | 18G16                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S27-B            | D41112-VAL          | Anal Swab Kit: Lubricant                       | 78774             | September 03, 2021  | 5021 CQ02                         | 0                   | 0                  |                    | Pass               | Yes                |
|          | S27-F            | B24511 Water        | Penile Swab Kit: Water                         | 79159             | September 30, 2021  | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S27-D            | G91613-L/B26409     | Couch Cover Kit: Couch Cover                   | 76627             | April 19, 2021      | 76627                             | 0                   | 0                  |                    | Pass               | No                 |
|          | S27-E            | B22297-ETO          | Urine Collection Kit: Tissue Paper             | 70897             | May 12, 2020        | 100524 65979                      | 0                   | 0                  |                    | Pass               | Yes                |
| S28      | S28-A            | B24511 Water        | Mouth Collection it: Water                     | 79405             | November 02, 2021   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S28-B            | F60492              | Condom Collection Kit: 110 ml                  | 70326             | April 01, 2020      | n/a                               | 0                   | 0                  |                    | Pass               | No                 |

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| SARC No. | SARC item number | Item ref.           | Description                                    | Lot number of kit | Date of manufacture | Batch/Lot number of specific item | Quant score (ng/μl) | PCR 1 Allele Count | PCR 2 Allele Count | Result (Pass/Fail) | Forensic DNA Grade |
|----------|------------------|---------------------|------------------------------------------------|-------------------|---------------------|-----------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| S29      | S28-C            | B22711-ETO Swab     | Standard Swab Kit: Swab                        | 79440             | November 02, 2021   | 21H10                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S28-D            | G91390-ETO/B26992-A | Colposcope Cover Kit: Colposcope cover         | 73447             | October 28, 2020    | 73447                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S28-E            | B22500 Buccal Swab  | Elimination Kit: Buccal Swab                   | 204112102         | unknown             | G310                              | 0                   | 0                  |                    | Pass               | Yes                |
|          | S29-A            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 77729             | June 28, 2021       | 77729                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S29-B            | B24511 Water        | Standard Swab Kit: Water                       | 76869             | May 04, 2021        | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S29-C            | B21810 Forceps      | Condom Collection Kit: Forceps                 | 78253             | July 30, 2021       | 171125 77084                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S29-D            | B22500 Buccal Swab  | Elimination Kit: Buccal Swab                   | 208022102         | unknown             | J030                              | 0                   | 0                  |                    | Pass               | Yes                |
| S30      | S29-E            | B22297-ETO          | Urine Collection Kit: Tissue Paper             | 78464             | August 17, 2021     | 020626 77394                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S30-A            | F60421-ETO          | Mouth Collection Kit: 60 ml Container          | 78639             | August 24, 2021     | 77877 010726                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S30-B            | B24511 Water        | Vaginal Swab Kit: Water                        | 79542             | November 04, 2021   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S30-C            | B22711-ETO Swab     | Penile Swab Kit: Swab                          | 74479             | December 18, 2020   | 20F15                             | 1E-04               | 0                  |                    | Pass               | Yes                |
|          | S30-D            | D41112-VAL          | Anal Swab Kit: Lubricant                       | 80201             | December 21, 2021   | 5161CQ03                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S30-E            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 79024             | September 20, 2021  | 79024                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S31-A            | B24511 Water        | Mouth Collection Kit: Water                    | 77069             | May 14, 2021        | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
| S31      | S31-B            | D41112-VAL          | Anal Swab Kit: Lubricant                       | 80411             | January 07, 2022    | 5161 CQ03                         | 0                   | 0                  |                    | Pass               | Yes                |
|          | S31-C            | B22711-ETO Swab     | Penile Swab Kit: Swab                          | 68817             | January 20, 2020    | 19H12                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S31-D            | B22301-ETO Paper    | Nail Collection Kit: Paper                     | 79691             | November 16, 2021   | 78699                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S31-E            | B22500 Buccal Swab  | Elimination Kit: Buccal Swab                   | 206102102         | unknown             | G310                              | 0                   | 0                  |                    | Pass               | Yes                |
|          | S32-A            | B24511 Water        | Penile Swab Kit: Water                         | 76977             | May 11, 2021        | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S32-B            | B21710-ETO Comb     | Hair Collection Kit: Comb                      | 78591             | August 20, 2021     | 77080                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S32-C            | B22711-ETO Swab     | Vaginal Collection Kit: Swab                   | 77706             | June 25, 2021       | 21C01                             | 0                   | 0                  |                    | Pass               | Yes                |
| S32      | S32-D            | B21810 Forceps      | Condom Collection Kit: Forceps                 | 77015             | May 12, 2021        | 71166 W478212                     | 1E-04               | 0                  |                    | Pass               | Yes                |
|          | S32-E            | G91390-ETO/B26992-A | Colposcope Cover Kit: Colposcope cover         | 75235             | January 29, 2021    | 75235                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S33-A            | B24512 Water        | Mouth Collection Kit: Water                    | 77864             | July 05, 2021       | S1120-10                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S33-B            | B22711-ETO Swab     | Standard Swab Kit: Swab                        | 77666             | June 24, 2021       | 20L12                             | 1E-04               | 0                  |                    | Pass               | Yes                |
|          | S33-C            | D41112-VAL          | Vaginal Swab Kit: Lubricant                    | 79952             | December 03, 2021   | 5161CQ03                          | 1E-04               | 0                  |                    | Pass               | Yes                |
|          | S33-D            | F60424              | Condom Collection Kit: 110 ml container        | 79161             | August 24, 2021     | 040326 77674                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S33-E            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 77729             | June 28, 2021       | 77729                             | 0                   | 0                  |                    | Pass               | Yes                |
| S34      | S34-A            | B24511 Water        | Hand Swab Kit: Water                           | 77140             | May 17, 2021        | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S34-B            | B22715-ETO Swab     | Nail Collection Kit: Swab                      | 78467             | August 17, 2021     | 21F07                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S34-C            | F60500-ETO          | Sanitary Wear Collection Kit: 450 ml container | 77664             | June 24, 2021       | 77011 081225                      | 0                   | 0                  |                    | Pass               | Yes                |

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| SARC No. | SARC item number | Item ref.                | Description                                    | Lot number of kit | Date of manufacture | Batch/Lot number of specific item | Quant score (ng/μl) | PCR 1 Allele Count | PCR 2 Allele Count | Result (Pass/Fail) | Forensic DNA Grade |
|----------|------------------|--------------------------|------------------------------------------------|-------------------|---------------------|-----------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
|          | S34-D            | B22519                   | Speculum                                       | Aug-21            | Aug-21              | PVS/10000002571                   | 8E-04               | 15                 |                    | Fail               | No                 |
| S35      | S34-E            | B22509                   | Proctoscope                                    | 2729              | unknown             | 2729                              | 1E-04               | 0                  |                    | Pass               | No                 |
|          | S35-A            | F60421-ETO               | Mouth Collection Kit: 60 ml container          | 77667             | June 24, 2021       | 76026 010326                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S35-B            | B24511 Water             | Standard Swab Kit: Water                       | 78339             | August 05, 2021     | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S35-C            | B22711-ETO Swab          | Vaginal Swab Kit:                              | 78601             | August 23, 2021     | 21E24                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S35-D            | B21710-ETO Comb          | Hair Collection Kit: Comb                      | 79340             | November 01, 2021   | 76520                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S35-E            | F60500-ETO               | Sanitary Wear Collection Kit: 450 ml container | 78465             | August 17, 2021     | 77999                             | 0                   | 0                  |                    | Pass               | Yes                |
| S36      | S36-A            | F60500-ETO               | Sanitary Wear Collection Kit: 450 ml container | 76808             | April 28, 2021      | 220425 73280                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S36-B            | B22711-ETO Swab          | Standard Swab Kit: Swab                        | 79440             | November 02, 2021   | 21H10                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S36-C            | B24511 Water             | Anal Swab Kit: Water                           | 76976             | May 11, 2021        | S1120-5                           | 0                   | 1                  |                    | Pass               | Yes                |
|          | S36-D            | B21710-ETO Comb          | Hair Collection Kit: Comb                      | 77208             | May 21, 2021        | 74384                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S36-E            | B22301-ETO Paper         | Nail Collection Kit: Paper                     | 76921             | May 06, 2021        | 76025 W494480                     | 1E-04               | 0                  |                    | Pass               | Yes                |
|          | S36-F            | B24511 Water             | Standard Swab Kit: Water                       | 79440             | November 02, 2021   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S36-G            | B21922-ETO Nail Clippers | Nail Collection Kit: Nail clippers             | 76921             | May 06, 2021        | 74723                             | 0                   | 0                  |                    | Pass               | Yes                |
| S37      | S37-A            | B24512 Water             | Mouth Collection Kit: Water                    | 77667             | June 24, 2021       | S1120-5                           | 0                   | 3                  | 0                  | Pass               | Yes                |
|          | S37-B            | B22711-ETO Swab          | Standard Swab Kit: Swab                        | 78048             | July 16, 2021       | 21C29                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S37-C            | D41112-VAL               | Vaginal Swab Kit: Lubricant                    | 79952             | December 03, 2021   | 5161 CQ03                         | 0                   | 0                  |                    | Pass               | Yes                |
|          | S37-D            | B21908-ETO Forceps       | Hair Collection Kit: Forceps                   | 77708             | June 25, 2021       | 74382 W487608                     | 0                   | 0                  |                    | Pass               | Yes                |
|          | S37-E            | F60424                   | Condom Collection Kit: 110 ml container        | 77765             | June 30, 2021       | 76310 010326                      | 0                   | 0                  |                    | Pass               | Yes                |
| S38      | S38-A            | B24512 Water             | Mouth Collection Kit: Water                    | 73828             | November 18, 2020   | S0719-10                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S38-B            | B22711-ETO Swab          | Anal Swab Kit: Swab                            | 77474             | June 10, 2021       | 20L30                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S38-C            | B21809-ETO Forceps       | Hair Collection Kit: Forceps                   | 79340             | November 01, 2021   | 77078                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S38-D            | B22301-ETO Paper         | Hair Collection Kit: Paper                     | 79340             | November 01, 2021   | 78699                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S38-E            | F60424                   | Condom Collection Kit: 110 ml container        | 78634             | August 24, 2021     | 77084                             | 1E-04               | 0                  |                    | Pass               | Yes                |
| S39      | S39-A            | F60421-ETO               | Mouth Collection Kit: 60 ml container          | 79405             | November 02, 2021   | 78658                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S39-B            | B24511 Water             | Vaginal Swab Kit: Water                        | 79952             | December 03, 2021   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S39-C            | B21710-ETO Comb          | Hair Collection Kit: Comb                      | 79340             | November 01, 2021   | 76520                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S39-D            | B22720-ETO Swab          | Nail Collection Kit: Swab                      | 76831             | April 29, 2021      | 20F08                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S39-E            | G91613-L-ETO/B26409      | Couch Cover Kit: Couch Cover                   | 78497             | August 17, 2021     | 78497                             | 0                   | 0                  |                    | Pass               | Yes                |
| S40      | S40-A            | B22711-ETO Swab          | Standard Swab Kit: Swab                        | 78378             | August 10, 2021     | 21E04                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S40-B            | B21809 Forceps           | Hair Collection Kit: Forceps                   | 69198             | February 04, 2020   | W473664                           | 0                   | 0                  |                    | Pass               | No                 |
|          | S40-C            | B22301-ETO Paper         | Nail Collection Kit: Paper                     | 80024             | December 07, 2021   | 79264                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S40-D            | B26992-A                 | Colposcope Cover Kit:                          | 69635             | February 28, 2020   | 69635                             | 5E-04               | 7                  |                    | Fail               | No                 |

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| SARC No. | SARC item number | Item ref.           | Description                             | Lot number of kit | Date of manufacture | Batch/Lot number of specific item | Quant score (ng/μl) | PCR 1 Allele Count | PCR 2 Allele Count | Result (Pass/Fail) | Forensic DNA Grade |
|----------|------------------|---------------------|-----------------------------------------|-------------------|---------------------|-----------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| S41      | S40-E            | B22297-ETO          | Colposcope Cover                        | 78537             | August 18, 2021     | 77686                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S41-A            | F60421-ETO          | Urine Collection Kit: Tissue paper      | 78184             | July 26, 2021       | 77083                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S41-B            | B24511 Water        | Mouth Collection Kit: 60 ml Container   | 79407             | November 02, 2021   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S41-C            | D41112-VAL          | Standard Swab Kit: Water                | 79542             | November 04, 2021   | 5161 CQ03                         | 0                   | 0                  |                    | Pass               | Yes                |
|          | S41-D            | B22711-ETO          | Vaginal Swab Kit: Lubricant             | 78774             | September 03, 2021  | 21F14                             | 0                   | 0                  |                    | Pass               | Yes                |
| S42      | S41-E            | B22523-ETO          | Anal Swab Kit: Swab                     | 201745            | unknown             | No Sticker                        | 0                   | 0                  |                    | Pass               | Unknown            |
|          | S42-A            | B24512 Water        | Speculum                                | 74418             | December 16, 2020   | S0719-10                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S42-B            | B22521-ETO          | Early Evidence Kit: Water               | 78284             | August 03, 2021     | 78284                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S42-C            | B22500 Buccal Swab  | Speculum                                | 210022002         | unknown             | WB100004                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S42-D            | D41112-VAL          | Elimination Kit: Buccal Swab            | 5021CQ02          | unknown             | 5021 CQ02                         | 0                   | 0                  |                    | Pass               | Yes                |
| S43      | S42-E            | B22711-ETO          | Lubricant                               | 19A30             | unknown             | 19A30                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S43-A            | B22711-ETO          | MW102 Swab                              | 69837             | March 11, 2020      | 19J09                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S43-B            | B21913-ETO          | Mouth Collection Kit: Swab              | 77708             | June 25, 2021       | 76629                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S43-D            | B24511 Water        | Hair Collection Kit: Scissors           | 78048             | July 16, 2021       | S1120-5                           | 0                   | 1                  |                    | Pass               | Yes                |
|          | S43-E            | B22711-ETO          | Standard Swab Kit: Water                | 78048             | July 16, 2021       | 21C29                             | 0                   | 0                  |                    | Pass               | Yes                |
| S44      | S44-A            | B22711-ETO          | Standard Swab Kit: Swab                 | 79951             | December 03, 2021   | 21K11                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S44-B            | B24511 Water        | Hand Swab Kit: Swab                     | 79951             | December 03, 2021   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S44-C            | B24512 Water        | Hand Swab Kit: Water                    | 72582             | September 09, 2020  | S0719-10                          | 0.002               | 0                  |                    | Pass               | Yes                |
|          | S44-D            | B22720-ETO          | Nail Collection Kit: Water              | 72582             | September 09, 2020  | 19C26                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S46-A            | B22301-ETO          | Nail Collection Kit: Swab               | 78467             | August 17, 2021     | 78086                             | 0                   | 0                  |                    | Pass               | Yes                |
| S46      | S46-B            | B24511 Water        | Nail Collection Kit: Paper              | 79951             | December 03, 2021   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S46-C            | B22711-ETO          | Standard Swab Kit: Water                | 79953             | December 03, 2021   | 21H16                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S46-D            | B22509-ETO          | Anal Swab Kit: Swab                     | 75042             | January 20, 2021    | 75042                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S46-E            | G91390-ETO/B26992-A | Proctoscope                             | 78970             | September 16, 2021  | 78970                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S46-F            | B22297-ETO          | Colposcope Cover Kit: Colposcope Cover  | 77075             | May 14, 2021        | 74719                             | 0                   | 0                  |                    | Pass               | Yes                |
| S47      | S46-G            | B22522-ETO          | Urine Collection Kit: Tissue paper      | 78644             | August 24, 2021     | 78644                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S47-A            | B22509-ETO          | Speculum                                | 74656             | January 04, 2021    | 74656                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S47-B            | G91613-L-ETO/B26409 | Proctoscope                             | 78497             | August 17, 2021     | N/A                               | 0                   | 0                  |                    | Pass               | Yes                |
|          | S47-C            | F60424              | Couch Cover Kit: Couch Cover            | 77198             | May 20, 2021        | 75236                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S47-D            | B22711-ETO          | Condom Collection Kit: 110 ml container | 78184             | July 26, 2021       | 21E04                             | 0                   | 0                  |                    | Pass               | Yes                |
| S48      | S47-E            | B24511 Water        | Mouth Collection Kit: Swab              | 78782             | September 03, 2021  | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S48-A            | B22711-ETO          | Standard Swab Kit: Water                | 79951             | December 03, 2021   | 21K11                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S48-B            | B24511 Water        | Standard Swab Kit: Swab                 | 79951             | December 03, 2021   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S48-C            | B26992-A            | Standard Swab Kit: Water                | 78303             | August 03, 2021     | 78303                             | 6E-04               | 9                  |                    | Fail               | No                 |
|          |                  |                     | Colposcope Cover Kit:                   |                   |                     |                                   |                     |                    |                    |                    |                    |

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| SARC No. | SARC item number | Item ref.           | Description                                   | Lot number of kit | Date of manufacture | Batch/Lot number of specific item | Quant score (ng/μl) | PCR 1 Allele Count | PCR 2 Allele Count | Result (Pass/Fail) | Forensic DNA Grade |
|----------|------------------|---------------------|-----------------------------------------------|-------------------|---------------------|-----------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| S49      | S48-F            | B22715-ETO Swab     | Colposcope Cover<br>Nail Collection Kit: Swab | 77782             | June 30, 2021       | 21E24                             | 1E-04               | 1                  |                    | Pass               | Yes                |
|          | S48-E            | B22301-ETO Paper    | Nail Collection Kit: Paper                    | 77782             | June 30, 2021       | 76809                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S49-A            | B22711-ETO Swab     | Mouth Collection Kit: Swab                    | 77069             | May 14, 2021        | 20L02                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S49-B            | B21913-ETO Scissor  | Hair Collection Kit: Scissors                 | 72693             | September 16, 2020  | W063442                           | 1E-04               | 0                  |                    | Pass               | Yes                |
|          | S49-C            | B24511 Water        | Nail Collection Kit: Water                    | 79691             | November 16, 2021   | S0521-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S49-D            | G91390-ETO/B26992-A | Colposcope Cover Kit: Colposcope Cover        | 75235             | January 29, 2021    | 75235                             | 0                   | 0                  |                    | Pass               | Yes                |
| S50      | S49-E            | B22297-ETO          | Urine Collection Kit: Tissue Paper            | 78537             | August 18, 2021     | 020626 77686                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S50-A            | B22301-ETO Paper    | Hair Collection Kit: Paper                    | 77208             | May 21, 2021        | W489528 74720                     | 0                   | 0                  |                    | Pass               | Yes                |
|          | S50-B            | B22715-ETO Swab     | Nail Collection Kit: Swab                     | 72556             | September 09, 2020  | 19C26                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S50-C            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                  | 78497             | August 17, 2021     | 78497                             | 1E-04               | 0                  |                    | Pass               | Yes                |
|          | S50-D            | G91390-ETO/B26992-A | Colposcope Cover Kit: Colposcope Cover        | 76254             | March 23, 2021      | 76254                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S50-E            | B24512 Water        | Standard Swab Kit: Water                      | 79428             | November 02, 2021   | S1120-10                          | 0                   | 0                  |                    | Pass               | Yes                |
| S51      | S51-A            | B24512 Water        | Mouth Collection kit: Water                   | 77069             | May 14, 2021        | S1120-10                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S51-F            | B22711-ETO Swab     | Mouth Collection kit: Swab                    | 77069             | May 14, 2021        | 20L02                             | 0                   | 1                  |                    | Pass               | Yes                |
|          | S51-B            | B21710-ETO Comb     | Hair Collection Kit: Comb                     | 77012             | May 12, 2021        | 021224 74384                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S51-C            | B22301-ETO Paper    | Nail Collection Kit: Swab                     | 78466             | August 17, 2021     | W500496 77797                     | 0                   | 0                  |                    | Pass               | Yes                |
|          | S51-D            | G91390-ETO/B26992-A | Colposcope Cover Kit: Colposcope Cover        | 78970             | September 16, 2021  | 78970                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S51-E            | B22297-ETO          | Urine Collection Kit: Tissue Paper            | 78700             | August 31, 2021     | 77686                             | 0                   | 0                  |                    | Pass               | Yes                |
| S52      | S52-A            | B22711-ETO Swab     | Early Evidence Kit: Swab                      | 78976             | September 16, 2021  | 21E10                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S52-B            | B24511 Water        | Anal Swab Kit: Water                          | 77474             | June 10, 2021       | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S52-C            | B21913-ETO Scissor  | Hair Collection Kit: Scissors                 | 78591             | August 20, 2021     | W063442                           | 1E-04               | 0                  |                    | Pass               | Yes                |
|          | S52-D            | G91613-L/B26409     | Couch Cover Kit: Couch Cover                  | 78035             | July 15, 2021       | 78035                             | 0                   | 1                  |                    | Pass               | No                 |
|          | S52-E            | B21810 Forceps      | Condom Collection Kit: Forceps                | 75886             | March 03, 2021      | 75886                             | 0                   | 1                  |                    | Pass               | Yes                |
|          | S53-A            | B22711-ETO Swab     | Standard Swab Kit: Swab                       | 75358             | February 05, 2021   | 20H11                             | 0                   | 0                  |                    | Pass               | Yes                |
| S53      | S53-B            | B24512 Water        | Mouth Samples Kit: Water                      | 75595             | February 17, 2021   | S1120-10                          | 0                   | 0                  |                    | Pass               | Yes                |
|          | S53-C            | B22711-ETO Swab     | Mouth Samples: Swab                           | 75595             | February 17, 2021   | 20G14                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S53-D            | B22720-ETO Swab     | Fingernails Samples Kit: Swab                 | 75147             | January 22, 2021    | 20F19                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S53-E            | B22720-ETO Swab     | Fingernails Samples Kit: Swab                 | 75147             | January 22, 2021    | 20F19                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S54-A            | B24511 Water        | Nail Collection Kit: Swab                     | 66219             | August 30, 2019     | 18J24                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S54-B            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                  | 79024             | September 20, 2021  | 79024                             | 0                   | 0                  |                    | Pass               | Yes                |

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| SARC No. | SARC item number | Item ref.           | Description                                    | Lot number of kit | Date of manufacture | Batch/Lot number of specific item | Quant score (ng/μl) | PCR 1 Allele Count | PCR 2 Allele Count | Result (Pass/Fail) | Forensic DNA Grade |
|----------|------------------|---------------------|------------------------------------------------|-------------------|---------------------|-----------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
|          | S54-D            | B22715-ETO Swab     | Early Evidence Kit: Swab                       | 78496             | August 17, 2021     | 21C01                             | 2E-04               | 0                  |                    | Pass               | Yes                |
|          | S54-F            | B24511 Water        | Early Evidence Kit: Water                      | 78496             | August 17, 2021     | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S54-G            | F60421-ETO          | Early Evidence Kit: 60 ml container            | 78496             | August 17, 2021     | 76026                             | 0                   | 1                  |                    | Pass               | Yes                |
| S55      | S55-A            | B24511 Water        | Mouth Collection: Water                        | 77069             | May 14, 2021        | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S55-B            | B22711-ETO Swab     | Anal Swab Kit: Swab                            | 77819             | July 02, 2021       | 21C01                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S55-C            | B21710-ETO Comb     | Hair Collection Kit: Comb                      | 78776             | September 09, 2021  | 190226 77280                      | 0                   | 0                  |                    | Pass               | Yes                |
|          | S55-D            | B21810 Forceps      | Condom Collection Kit: Forceps                 | 78634             | August 24, 2021     | 040326 77674                      | 0                   | 1                  |                    | Pass               | Yes                |
|          | S55-E            | B22301-ETO Paper    | Early Evidence Kit: Paper                      | 74380             | December 16, 2020   | WO69952                           | 0                   | 0                  |                    | Pass               | Yes                |
| S56      | S56-A            | D41112-VAL          | Vaginal Swab Kit: Lubricant                    | 78178             | July 26, 2021       | 1021 CQ05                         | 0                   | 0                  |                    | Pass               | Yes                |
|          | S56-B            | B22711-ETO Swab     | Anal Swab Kit: Swab                            | 74456             | December 17, 2020   | 20F23                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S56-C            | B24511 Water        | Mouth Collection Kit: Water                    | 77069             | May 14, 2021        | S1120-5                           | 0                   | 0                  |                    | Pass               | Yes                |
|          | S56-D            | G91613-L-ETO/B26409 | Couch Cover Kit: Couch Cover                   | 78497             | August 17, 2021     | 78497                             | 0                   | 0                  |                    | Pass               | Yes                |
|          | S56-E            | F60500-ETO          | Sanitary Wear Collection Kit: 450 ml container | 77664             | June 24, 2021       | 081225 77011                      | 0                   | 0                  |                    | Pass               | Yes                |

## Appendix C. Contaminating Alleles Detected in PCR Results

| SARC Item No. | Item Description   | DNA Result No. | Batch    | Marker   | Allele | Size   | Height | Area |
|---------------|--------------------|----------------|----------|----------|--------|--------|--------|------|
| n/a           | n/a                | ExtNegF980288  | VC220365 | D3S1358  | 15     | 145.37 | 116    | 1031 |
| n/a           | n/a                | ExtNegF980458  | VC220362 | D12S391  | 24     | 268.26 | 66     | 627  |
| S01-A         | 60 ml Container    | F979964        | VC220341 | D19S433  | 13     | 141.74 | 190    | 1514 |
| S01-B         | Swab               | F979965        | VC220341 | D16S539  | OL     | 245.06 | 63     | 525  |
| S01-B         | Swab               | F979965        | VC220341 | D12S391  | 20.3   | 256.03 | 84     | 954  |
| S02-C         | Couch Cover        | F979971        | VC220341 | D10S1248 | 14     | 100.19 | 114    | 833  |
| S02-C         | Couch Cover        | F979971        | VC220341 | D10S1248 | 15     | 104.43 | 494    | 3592 |
| S02-C         | Couch Cover        | F979971        | VC220341 | vWA      | 14     | 164.15 | 83     | 648  |
| S02-C         | Couch Cover        | F979971        | VC220341 | D16S539  | 10     | 248.23 | 176    | 1391 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D2S1338  | 20     | 308.66 | 163    | 1306 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D2S1338  | 23     | 320.98 | 130    | 1044 |
| S02-C         | Couch Cover        | F979971        | VC220341 | AMEL     | X      | 98.91  | 936    | 6779 |
| S02-C         | Couch Cover        | F979971        | VC220341 | AMEL     | Y      | 104.99 | 208    | 1489 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D8S1179  | 15     | 151.2  | 225    | 1594 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D8S1179  | 16     | 155.29 | 227    | 1647 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D21S11   | 29     | 203.63 | 681    | 4799 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D21S11   | 30     | 207.56 | 173    | 1172 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D18S51   | 14     | 289.72 | 427    | 3321 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D22S1045 | 15     | 99.73  | 352    | 2677 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D22S1045 | 17     | 106    | 371    | 2846 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D19S433  | 12     | 137.74 | 626    | 4492 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D19S433  | 15.2   | 151.59 | 202    | 1549 |
| S02-C         | Couch Cover        | F979971        | VC220341 | TH01     | 9      | 199.7  | 542    | 3900 |
| S02-C         | Couch Cover        | F979971        | VC220341 | TH01     | 9.3    | 202.74 | 174    | 1180 |
| S02-C         | Couch Cover        | F979971        | VC220341 | FGA      | 22     | 251.84 | 105    | 807  |
| S02-C         | Couch Cover        | F979971        | VC220341 | FGA      | 23     | 255.72 | 511    | 3759 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D2S441   | 10     | 82.66  | 90     | 728  |
| S02-C         | Couch Cover        | F979971        | VC220341 | D2S441   | 11     | 86.76  | 390    | 3147 |
| S02-C         | Couch Cover        | F979971        | VC220341 | D2S441   | 12     | 90.88  | 86     | 838  |
| S02-C         | Couch Cover        | F979971        | VC220341 | D3S1358  | 16     | 149.45 | 86     | 709  |
| S02-C         | Couch Cover        | F979971        | VC220341 | D1S1656  | 11     | 181.4  | 150    | 1196 |
| S02-C         | Couch Cover        | F979971        | VC220341 | SE33     | 15     | 353.91 | 210    | 1806 |
| S02-C         | Couch Cover        | F979971        | VC220341 | SE33     | 31.2   | 420.12 | 81     | 809  |
| S02-E         | Medium Proctoscope | F979973        | VC220341 | D10S1248 | 13     | 96.05  | 93     | 654  |
| S02-E         | Medium Proctoscope | F979973        | VC220341 | D2S441   | 11     | 86.75  | 68     | 448  |

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| SARC Item No. | Item Description   | DNA Result No. | Batch    | Marker   | Allele | Size   | Height | Area |
|---------------|--------------------|----------------|----------|----------|--------|--------|--------|------|
| S02-E         | Medium Proctoscope | F979973        | VC220341 | D2S441   | 12     | 90.84  | 175    | 1325 |
| S02-E         | Medium Proctoscope | F979973        | VC220413 | D10S1248 | 16     | 108.48 | 93     | 648  |
| S02-E         | Medium Proctoscope | F979973        | VC220413 | D22S1045 | 15     | 99.73  | 129    | 868  |
| S02-E         | Medium Proctoscope | F979973        | VC220413 | D22S1045 | 16     | 102.77 | 81     | 547  |
| S02-E         | Medium Proctoscope | F979973        | VC220413 | D3S1358  | 16     | 149.5  | 99     | 873  |
| S06-E         | Couch Cover        | F980006        | VC220341 | D10S1248 | 13     | 96.13  | 1187   | 8550 |
| S06-E         | Couch Cover        | F980006        | VC220341 | vWA      | 17     | 176.11 | 61     | 458  |
| S06-E         | Couch Cover        | F980006        | VC220341 | D16S539  | 9      | 244.27 | 325    | 2399 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D16S539  | 12     | 256.29 | 199    | 1476 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D2S1338  | 17     | 296.91 | 175    | 1386 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D2S1338  | 19     | 304.76 | 151    | 1147 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D2S1338  | 23     | 321.13 | 175    | 1383 |
| S06-E         | Couch Cover        | F980006        | VC220341 | AMEL     | X      | 98.89  | 368    | 2552 |
| S06-E         | Couch Cover        | F980006        | VC220341 | AMEL     | Y      | 104.96 | 952    | 6676 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D8S1179  | 11     | 134.61 | 107    | 791  |
| S06-E         | Couch Cover        | F980006        | VC220341 | D8S1179  | 12     | 138.65 | 728    | 5078 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D8S1179  | 13     | 142.94 | 581    | 4053 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D8S1179  | 14     | 147.07 | 103    | 690  |
| S06-E         | Couch Cover        | F980006        | VC220341 | D21S11   | 27     | 195.6  | 464    | 3275 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D21S11   | 30     | 207.63 | 232    | 1753 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D21S11   | 32.2   | 217.72 | 476    | 3299 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D18S51   | 14     | 289.78 | 553    | 4284 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D22S1045 | 11     | 87.43  | 92     | 757  |
| S06-E         | Couch Cover        | F980006        | VC220341 | D22S1045 | 16     | 102.9  | 424    | 3106 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D22S1045 | 17     | 105.99 | 612    | 4639 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D19S433  | 15     | 149.64 | 267    | 1920 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D19S433  | 16     | 153.61 | 367    | 2763 |
| S06-E         | Couch Cover        | F980006        | VC220341 | TH01     | 9      | 199.8  | 217    | 1666 |
| S06-E         | Couch Cover        | F980006        | VC220341 | TH01     | 9.3    | 202.81 | 505    | 3656 |
| S06-E         | Couch Cover        | F980006        | VC220341 | FGA      | 22     | 251.96 | 139    | 1157 |
| S06-E         | Couch Cover        | F980006        | VC220341 | FGA      | 23     | 255.78 | 397    | 3151 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D2S441   | 11     | 86.8   | 329    | 2705 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D2S441   | 14     | 98.98  | 639    | 4940 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D3S1358  | 16     | 149.54 | 458    | 3912 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D3S1358  | 17     | 153.51 | 192    | 1417 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D1S1656  | 15.3   | 200.4  | 77     | 542  |
| S06-E         | Couch Cover        | F980006        | VC220341 | D1S1656  | 16     | 201.4  | 80     | 747  |
| S06-E         | Couch Cover        | F980006        | VC220341 | D12S391  | 18     | 245.12 | 181    | 1436 |
| S06-E         | Couch Cover        | F980006        | VC220341 | D12S391  | 20     | 253.1  | 213    | 1740 |
| S06-E         | Couch Cover        | F980006        | VC220341 | SE33     | 16     | 357.85 | 91     | 785  |
| S06-E         | Couch Cover        | F980006        | VC220341 | SE33     | 19     | 369.96 | 486    | 3992 |
| S06-E         | Couch Cover        | F980006        | VC220341 | SE33     | 23     | 386.03 | 262    | 2109 |
| S10-A         | Water              | F980019        | VC220341 | D22S1045 | 9      | 81.26  | 65     | 593  |
| S10-D         | Couch Cover        | F980022        | VC220341 | D1S1656  | 16     | 201.51 | 74     | 769  |
| S13-A         | Swab               | F980030        | VC220341 | D8S1179  | 10     | 130.59 | 174    | 1210 |
| S20-F         | Swab               | F980071        | VC220350 | D22S1045 | 11     | 87.42  | 83     | 760  |
| S21-E         | Buccal Swab        | F980135        | VC220350 | AMEL     | X      | 98.81  | 184    | 1299 |
| S24-C         | Couch Cover        | F980156        | VC220355 | D1S1656  | 15     | 197.4  | 99     | 1137 |
| S25-B         | Couch Cover        | F980160        | VC220355 | D10S1248 | 15     | 104.36 | 90     | 694  |
| S25-C         | Tissue Paper       | F980161        | VC220355 | D21S11   | 29     | 203.56 | 167    | 1286 |
| S12-C         | Scissors           | F980191        | VC220355 | SE33     | 19     | 370.02 | 112    | 1023 |
| S26-C         | Couch Cover        | F980196        | VC220355 | AMEL     | X      | 98.81  | 225    | 1577 |
| S26-C         | Couch Cover        | F980196        | VC220413 | AMEL     | Y      | 104.9  | 203    | 1374 |
| S34-D         | Speculum           | F980286        | VC220365 | D10S1248 | 14     | 99.91  | 197    | 1521 |
| S34-D         | Speculum           | F980286        | VC220365 | vWA      | 18     | 180    | 182    | 1319 |
| S34-D         | Speculum           | F980286        | VC220365 | D2S1338  | 18     | 300.62 | 164    | 1307 |
| S34-D         | Speculum           | F980286        | VC220365 | D2S1338  | 19     | 304.57 | 77     | 609  |
| S34-D         | Speculum           | F980286        | VC220365 | AMEL     | X      | 98.63  | 577    | 4133 |
| S34-D         | Speculum           | F980286        | VC220365 | D8S1179  | 14     | 146.6  | 339    | 2534 |
| S34-D         | Speculum           | F980286        | VC220365 | D21S11   | 29     | 203.47 | 118    | 852  |
| S34-D         | Speculum           | F980286        | VC220365 | D21S11   | 30     | 207.47 | 256    | 1830 |
| S34-D         | Speculum           | F980286        | VC220365 | D22S1045 | 16     | 102.52 | 758    | 5672 |
| S34-D         | Speculum           | F980286        | VC220365 | D19S433  | 14     | 145.63 | 348    | 2673 |
| S34-D         | Speculum           | F980286        | VC220365 | FGA      | 20     | 244.16 | 302    | 2393 |
| S34-D         | Speculum           | F980286        | VC220365 | D2S441   | 11     | 86.6   | 65     | 817  |
| S34-D         | Speculum           | F980286        | VC220365 | D3S1358  | 18     | 157.42 | 210    | 1619 |
| S34-D         | Speculum           | F980286        | VC220365 | D1S1656  | 13     | 189.38 | 272    | 2080 |
| S34-D         | Speculum           | F980286        | VC220365 | D12S391  | 19     | 249.26 | 189    | 1745 |
| S37-A         | Water              | F980356        | VC220365 | D16S539  | 9      | 243.99 | 207    | 1658 |
| S37-A         | Water              | F980356        | VC220365 | D21S11   | 29     | 203.52 | 171    | 1170 |
| S37-A         | Water              | F980356        | VC220365 | D12S391  | 20     | 253.03 | 109    | 1013 |
| S40-D         | Colposcope Cover   | F980376        | VC220403 | D16S539  | 13     | 260.2  | 96     | 715  |
| S40-D         | Colposcope Cover   | F980376        | VC220403 | D8S1179  | 12     | 138.59 | 146    | 1160 |
| S40-D         | Colposcope Cover   | F980376        | VC220403 | D21S11   | 28     | 199.5  | 109    | 779  |
| S40-D         | Colposcope Cover   | F980376        | VC220403 | D22S1045 | 14     | 96.57  | 392    | 3367 |
| S40-D         | Colposcope Cover   | F980376        | VC220403 | D3S1358  | 14     | 141.43 | 123    | 1179 |

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| SARC Item No. | Item Description | DNA Result No. | Batch    | Marker   | Allele | Size   | Height | Area |
|---------------|------------------|----------------|----------|----------|--------|--------|--------|------|
| S40-D         | Colposcope Cover | F980376        | VC220403 | D3S1358  | 16     | 149.5  | 67     | 935  |
| S40-D         | Colposcope Cover | F980376        | VC220403 | SE33     | 18     | 365.94 | 99     | 889  |
| S48-C         | Colposcope Cover | F980450        | VC220362 | D10S1248 | 16     | 108.49 | 334    | 2520 |
| S48-C         | Colposcope Cover | F980450        | VC220362 | D16S539  | 12     | 256.23 | 69     | 604  |
| S48-C         | Colposcope Cover | F980450        | VC220362 | AMEL     | X      | 98.82  | 203    | 1531 |
| S48-C         | Colposcope Cover | F980450        | VC220362 | D8S1179  | 10     | 130.48 | 191    | 1459 |
| S48-C         | Colposcope Cover | F980450        | VC220362 | TH01     | 6      | 187.68 | 98     | 763  |
| S48-C         | Colposcope Cover | F980450        | VC220362 | D2S441   | 10     | 82.48  | 137    | 876  |
| S48-C         | Colposcope Cover | F980450        | VC220362 | D2S441   | 14     | 98.91  | 83     | 837  |
| S48-C         | Colposcope Cover | F980450        | VC220362 | D3S1358  | 15     | 145.57 | 84     | 806  |
| S48-C         | Colposcope Cover | F980450        | VC220362 | D12S391  | OL     | 258.06 | 177    | 1865 |
| S48-F         | Swab             | F980451        | VC220362 | D2S441   | 10     | 82.56  | 87     | 669  |
| S36-C         | Water            | F980461        | VC220366 | D22S1045 | 15     | 99.35  | 86     | 720  |
| S51-F         | Swab             | F980477        | VC220366 | D2S441   | 14     | 98.79  | 111    | 922  |
| S52-D         | Couch Cover      | F980482        | VC220362 | D2S441   | 11     | 86.66  | 90     | 878  |
| S52-E         | Forceps          | F980483        | VC220362 | AMEL     | X      | 98.71  | 233    | 1693 |
| S55-D         | Forceps          | F980963        | VC220403 | TH01     | 6      | 187.54 | 121    | 1154 |
| S43-D         | Water            | F981030        | VC220403 | D2S441   | 14     | 98.98  | 190    | 1580 |
| S54-G         | 60 ml Container  | F981036        | VC220403 | D16S539  | 13     | 260.31 | 73     | 573  |

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