

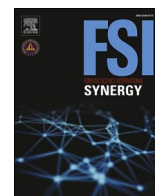
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## Validation of consumables used in the recovery of DNA evidence within Sexual Assault Referral Centres (SARCs)

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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 un-sourced 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 Standard Swab Kit Hand Swab Kit Early Evidence Kit Mouth Collection Vaginal Swab Kit Individual Water Ampoule- Anal Swab Kit- 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 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 Hair Collection Kit Nail Collection Kit Early Evidence Kit	Remove 2–3 cm <sup>2</sup> section of paper
<b>Tissue Paper</b>	Urine Collection Kit Early Evidence Kit	
<b>Nail Clippers</b>	Nail Collection Kit-	Swab cutting blades
<b>Lubricant</b>	Lubricant- individual sachet Anal Swab Kit 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 Anal Swab Kit Standard Swab Kit Mouth Collection Kit	
<b>MWSCS 6" Taper tip swab</b>	Penile Swab Kit Nail Collection Kit Early Evidence Kit	
<b>3" Taper tip swab</b>	Hand Swab Kit 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: 60 ml Container	76763	April 27, 2021	75451	0	1		Pass	Yes
	S01-B	B2711-ETO	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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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-D	B21809-ETO	Condom	73836	November 18, 2020	69948	0	0		Pass	Yes
		Forceps	Collection Kit: Forceps								
	S01-E	B22715-ETO	Nail Collection Kit: Swab	78215	July 28, 2021	21F07	0	0		Pass	Yes
S02	S02-A	B24512	Water	78938	September 16, 2021	S1120-10	0	0		Pass	Yes
	S02-B	B22720-ETO	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
	S02-D	B21809-ETO	Condom	70620	April 01, 2020	69948	0	0		Pass	Yes
		Forceps	Collection Kit: Forceps								
	S02-E	B22507	Medium	210402	unknown	210402	0	3	4	Fail	No
			Proctoscope								
S03	S03-A	B22711-ETO	Standard Swab Kit: Swab	79071	September 22, 2021	21H03	0	0		Pass	Yes
	S03-B	B22711-ETO	Anal Swab Kit: Swab	77024	May 12, 2021	20L02	0	0		Pass	Yes
	S03-C	B22298-ETO	Hair Collection Kit: Paper	69241	February 05, 2020	W470395	0	0		Pass	Yes
	S03-D	B24512	Water	79071	September 22, 2021	S1120-10	0	0		Pass	Yes
S04	S04-A	B22711-ETO	Mouth	78639	August 24, 2021	21F21	0	0		Pass	Yes
		Swab	Collection: Swab								
	S04-B	F60500-ETO	Sanitary Wear	77525	June 15, 2021	76844	0	0		Pass	Yes
			Collection Kit: 450 ml container								
	S04-C	B24511	Water	79440	November 02, 2021	S0521-5	0	0		Pass	Yes
			Standard Swab Kit: Water								
	S04-D	G91613-L-ETO/B26409	Couch Cover Kit: Couch Cover	79024	September 20, 2021	79024	0	0		Pass	Yes
	S04-E	B22301-ETO	Hair Collection Kit: Paper	76871	May 04, 2021	75050	0	0		Pass	Yes
S05	S05-A	F60421-ETO	Mouth	78184	July 26, 2021	77083	0	0		Pass	Yes
			Collection Kit: 60 ml container								
	S05-B	B22711-ETO	Anal Swab Kit: Swab	77474	June 10, 2021	20L30	0	0		Pass	Yes
	S05-C	B24511	Water	79437	November 02, 2011	S0521-5	0	0		Pass	Yes
			Standard Swab Kit: Water								
	S05-D	G91613-L-ETO/B26409	Couch Cover Kit: Couch Cover	78497	August 17, 2021	78497	0	0		Pass	Yes
	S05-E	B22500	Buccal Swab	207012002	unknown	J129	0	0		Pass	Yes
			Elimination Kit: Buccal Swab								
S06	S06-A	F60421-ETO	Mouth	77667	June 24, 2021	010326 76026	0	0		Pass	Yes
			Collection Kit: 60 ml Container								
	S06-B	B24511	Water	78999	September 17, 2021	S1120-5	0	0		Pass	Yes
			Standard Swab Kit: Water								
	S06-C	B22711-ETO	Penile Swab Kit: Swab	77378	June 04, 2021	20L16	0	0		Pass	Yes
	S06-D	B22500	Buccal Swab	217032102	unknown	J2030	0	0		Pass	Yes
			Elimination Kit: Buccal Swab								
	S06-E	G91613-L/B26409	Couch Cover Kit: Couch Cover	78251	July 30, 2021	78251	0.002	37		Fail	No
S07	S07-A	B22711-ETO	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	75548	February 16, 2021	S1120-10	0	0		Pass	Yes
			Hand Swab Kit: Water								
	S07-D	B21913-ETO	Hair Collection Kit: Forceps	77708	June 25, 2021	74382	0	0		Pass	Yes
	S07-E	F60421-ETO	Mouth	72250	August 20, 2020	70500	0	0		Pass	Yes
			Collection Kit: 60 ml container								
S08	S08-A	B24511	Water	78638	August 24, 2021	S1120-5	0	0		Pass	Yes
			Standard Swab Kit: Water								
	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/ $\mu$ l)	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	B24511 Water	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	Yes
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
	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	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
	S29-E	B22297-ETO	Urine Collection Kit: Tissue Paper	78464	August 17, 2021	020626 77394	0	0		Pass	Yes
S30	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	S31-A	B24511 Water	Mouth Collection Kit: Water	77069	May 14, 2021	S1120-5	0	0		Pass	Yes
	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	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-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	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/ $\mu$ l)	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
			Colposcope Cover								
	S40-E	B22297-ETO	Urine Collection Kit: Tissue paper	78537	August 18, 2021	77686	0	0		Pass	Yes
S41	S41-A	F60421-ETO	Mouth Collection Kit: 60 ml Container	78184	July 26, 2021	77083	0	0		Pass	Yes
	S41-B	B24511 Water	Standard Swab Kit: Water	79407	November 02, 2021	S0521-5	0	0		Pass	Yes
	S41-C	D41112-VAL	Vaginal Swab Kit: Lubricant	79542	November 04, 2021	5161 CQ03	0	0		Pass	Yes
	S41-D	B22711-ETO	Anal Swab Kit: Swab	78774	September 03, 2021	21F14	0	0		Pass	Yes
	S41-E	B22523-ETO	Speculum	201745	unknown	No Sticker	0	0		Pass	Unknown
S42	S42-A	B24512 Water	Early Evidence Kit: Water	74418	December 16, 2020	S0719-10	0	0		Pass	Yes
	S42-B	B22521-ETO	Speculum	78284	August 03, 2021	78284	0	0		Pass	Yes
	S42-C	B22500 Buccal Swab	Elimination Kit: Buccal Swab	210022002	unknown	WB100004	0	0		Pass	Yes
	S42-D	D41112-VAL	Lubricant	5021CQ02	unknown	5021 CQ02	0	0		Pass	Yes
	S42-E	B22711-ETO	MW102 Swab	19A30	unknown	19A30	0	0		Pass	Yes
S43	S43-A	B22711-ETO	Mouth Swab Collection Kit: Swab	69837	March 11, 2020	19J09	0	0		Pass	Yes
	S43-B	B21913-ETO	Hair Collection Kit: Scissors	77708	June 25, 2021	76629	0	0		Pass	Yes
	S43-D	B24511 Water	Standard Swab Kit: Water	78048	July 16, 2021	S1120-5	0	1		Pass	Yes
	S43-E	B22711-ETO	Standard Swab Kit: Swab	78048	July 16, 2021	21C29	0	0		Pass	Yes
S44	S44-A	B22711-ETO	Hand Swab Kit: Swab	79951	December 03, 2021	21K11	0	0		Pass	Yes
	S44-B	B24511 Water	Hand Swab Kit: Water	79951	December 03, 2021	S0521-5	0	0		Pass	Yes
	S44-C	B24512 Water	Nail Collection Kit: Water	72582	September 09, 2020	S0719-10	0.002	0		Pass	Yes
	S44-D	B22720-ETO	Nail Collection Kit: Swab	72582	September 09, 2020	19C26	0	0		Pass	Yes
S46	S46-A	B22301-ETO	Nail Collection Kit: Paper	78467	August 17, 2021	78086	0	0		Pass	Yes
	S46-B	B24511 Water	Standard Swab Kit: Water	79951	December 03, 2021	S0521-5	0	0		Pass	Yes
	S46-C	B22711-ETO	Anal Swab Kit: Swab	79953	December 03, 2021	21H16	0	0		Pass	Yes
	S46-D	B22509-ETO	Proctoscope	75042	January 20, 2021	75042	0	0		Pass	Yes
	S46-E	G91390-ETO/B26992-A	Colposcope Cover Kit: Colposcope Cover	78970	September 16, 2021	78970	0	0		Pass	Yes
	S46-F	B22297-ETO	Urine Collection Kit: Tissue paper	77075	May 14, 2021	74719	0	0		Pass	Yes
	S46-G	B22522-ETO	Speculum	78644	August 24, 2021	78644	0	0		Pass	Yes
S47	S47-A	B22509-ETO	Proctoscope	74656	January 04, 2021	74656	0	0		Pass	Yes
	S47-B	G91613-L-ETO/B26409	Couch Cover Kit: Couch Cover	78497	August 17, 2021	N/A	0	0		Pass	Yes
	S47-C	F60424	Condom Collection Kit: 110 ml container	77198	May 20, 2021	75236	0	0		Pass	Yes
	S47-D	B22711-ETO	Mouth Swab Collection Kit: Swab	78184	July 26, 2021	21E04	0	0		Pass	Yes
	S47-E	B24511 Water	Standard Swab Kit: Water	78782	September 03, 2021	S1120-5	0	0		Pass	Yes
S48	S48-A	B22711-ETO	Standard Swab Kit: Swab	79951	December 03, 2021	21K11	0	0		Pass	Yes
	S48-B	B24511 Water	Standard Swab Kit: Water	79951	December 03, 2021	S0521-5	0	0		Pass	Yes
	S48-C	B26992-A	Colposcope Cover Kit:	78303	August 03, 2021	78303	6E-04	9		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
			Colposcope Cover								
	S48-F	B22715-ETO Swab	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	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
	S49-E	B22297-ETO	Urine Collection Kit: Tissue Paper	78537	August 18, 2021	020626 77686	0	0		Pass	Yes
S50	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	S53-A	B22711-ETO Swab	Standard Swab Kit: Swab	75358	February 05, 2021	20H11	0	0		Pass	Yes
	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	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

(continued on next page)



(continued)

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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