

FORENSIC BIOLOGY PROTOCOLS FOR FORENSIC STR ANALYSIS

Reconstitution of Evaporated Extracts		
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Reconstitution of Evaporated Extracts

Follow all relevant processes in the [General Guidelines for Forensic Biology and DNA Casework procedure](#).

Follow all relevant processes in the [BEAST DNA Worksheet Setup Manual](#) for creating and adding to worksheets and [BEAST DNA Worksheet Processing Manual](#) for how to record all relevant information while processing the worksheets.

1 Pre-Processing

- 1.1 Samples not already present in the BEAST need to be added into the system. Contact LIMS Super Users to add hoc samples in BEAST.

2 Procedure

- 2.1 Retrieve and take custody of each sample.
- 2.2 Obtain one 1.5mL tube for the reconstitution negative and label it with the associated reconstitution negative label.
- 2.3 **Sample Setup WITNESS:** Have another analyst confirm the sample setup.
 - 2.3.1 Read the sample label for each extract.
 - 2.3.2 Record the 'Sample Setup Witness'.
- 2.4 Using a pipette, measure the volume (if any) of liquid present in the evaporated sample(s) and record the volume in the 'Initial Volume' column.
- 2.5 Add the amount of 0.1X TE⁻⁴ buffer necessary to bring the total volume of each sample to the required volume. Record the volume added for each sample and the lot number of 0.1X TE⁻⁴ used in the 'H₂O or TE Volume' column.

NOTE: For evaporated extracts, the number of punches column should be '0' and the instruments and temperatures can remain blank.

- 2.6 Vortex and centrifuge each sample briefly.
- 2.7 Record the 'Reconstituted By' review task and the 'Response' dropdown.
- 2.8 Transfer custody of all extracts to a cryobox and store in a refrigerator or freezer.
- 2.9 Assign samples to next process step.

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