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# 1 Contents

Daily Maintenance: Maxprep Maxprep Pre-Processing Run Setup Maxwell RSC 48 Run Setup Maxprep Post-Processing Run Setup

# 2 Daily Maintenance: Maxprep

2.1 Maxprep Desktop Icon:



#### 2.2 Maxprep Home Screen:



2.3 Maxprep Maintenance Selection Screen:

| NAME               | DESCRIPTION                                    | LAST PERFORMED       |
|--------------------|--|----------------------|
| Daily Maintenance  | cLLD and pipette maintenance                   | 2/1/2023 8:20:46 AM  |
| Weekly Maintenance | cLLD / pipette maintenance and XYZ calibration | 1/30/2023 8:33:50 AM |
| Sanitization       | UV sanitization                                | 2/1/2023 11:44:49 AM |

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### 2.4 Maxprep Daily Maintenance Checklist:



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# 3 Maxprep Pre-Processing Run Setup

#### 3.1 Selecting the method:

| €               |  | METHODS  |                                       |                             |             | *- 🗆 ? 🕷 |
|-----------------|--|--|---------------------------------------|-----------------------------|-------------|----------|
|                 | Sc                                       | an the reagent kit barcode or enter it manually                      |                                       |                             |             |          |
| FILTER          | NAME                                     | DESCRIPTION  | TYPE                                  | SAMPLE TYPE                 | CATALOG ID  | VERSION  |
| Method Type     | Maxwell® FSC DNA IQ <sup>w</sup> - Tubes | The Maxwell® FSC DNA IQ <sup>™</sup> Casework Kit is designed        | or optimal Pre-Processing             | DNA                         | A\$1550     | 1.2.0    |
| Pre-processing  | 40ul Elution Volume                      | The Maxwell® FSC DNA IQ <sup>™</sup> Casework Kit is designed for op | imal DNA extraction from forensic cas | ework samples. These sample | s may inclu |          |
| Post-processing | PCR Setup                                | This method will prepare both quantitative and end-po                | nt PCR rea Post-processing            | Universal                   |             | 12.1     |
| Sample Type     | Promega DNA Normalization and STR S      | etup This method will assemble STR typing reactions contai           | ning a targ Post-processing           | DNA                         |             | 1.2.1    |
| DNA             | Sample Transfer                          | This method will transfer part or all of your sample into            | new labw Post-processing              | Universal                   | None        | 1.2.0    |
| RNA Universal   | 40ul - Transfer 1                        | his method will transfer part or all of your sample into new l       | abware.                               |                             |             |          |

#### 3.2 Loading the sample deck trays:

| ی ک  |  | 40ul Elution Volume     | *- 🗆 ? 🕷                |
|--|--|-------------------------|-------------------------|
| METHOD SUMMARY   |  |                         |                         |
| Absr Cluckov Volume<br>Denrifigion:<br>The Manuell' FSC ENA 10 <sup>th</sup><br>Connect Kill & dissigned from<br>Generalic cancerod samples. The<br>samples may include blood statists,<br>sement states, his cigarettie<br>betts, fissues samples and hotor or<br>"anauf" of Nasangles regularity<br>encountered in foremaic DMA<br>analysis. | Move Arm                                   | Load the FRONT I        | 45C 48 Tray<br>dges: 24 |
| Type:<br>Pre-Processing<br>Sample Type:<br>DNA   | Run Summary Information                    | Maxwell KSC Iray Barcoc | F20002119               |
| Catalog IO:<br>A51550<br>Version:<br>1.2.0   | Sample Number 48<br>Sample Volume (µl) 400 |                         |                         |
| Based on:<br>Manuell* PSC DNA IQ** - Tubes   | Elution Volume (µl) 40                     | Maxwell RSC Kit Lo      | ot                      |
| Elepted Time: 00:00:18<br>A8087<br>IPN05.<br>E005  | PREV                                       | \$7<br>\$1              | NEXT                    |

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#### 3.3 Filling and loading reagent troughs:

| ۰.   |  | 40ul Elution Volume   | *-0?8*   | 40ul Elution Volume  | *-008                |
|--|--|---|--|--|----------------------|
| HE LEGIS MANAGEY<br>Mana<br>Mana<br>Manager<br>The Manager<br>The Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>Manager<br>M | Terres des<br>Terres des | Site 1: Losis Buffer<br>Enter Reagent Details<br>Site 2: Elution Buffer<br>Enter Reagent Details<br>Site 3: Empty | Market Alexandrometry and a second and a sec | Site 1: Lysis Buffer<br>Lysis buffer (AB26)<br>Volume (ml) 14.6<br>Lobrar 50 ml Reagent Lot Number<br>42<br>43 | agent Trough<br>none |
| Iteand on:<br>Manuel® PSC DNA (Q <sup>10</sup> Tubes   |  | Site 4: Empty   | Manuel Int<br>Manuel PRC DNA Q11 Tales   | Cim  | Next Sile            |
| Hagand Himo: 00.00.18  | PREV   |   | NEXT         14 and them         000218  |  | NEXT                 |

#### 3.4 Loading & scanning input samples:

| * •  | 40ul Elution Volume 😽 = 🗖 🕐   | 8 8 E   | 40ul Elution Volume 😽 🗕   | □?®          |
|--|---|---|---|--------------|
| Horizabatar     Hamiltonia     Hamiltonia | • The robot arm will move when you press Scan.<br>Ensure that the movement path is clear.<br>Primary Sample Tubes | Control Calibration<br>Control C  | The robot arm will move when you press.   | Scan.<br>ar. |
| Term (m)         User         sensorial         sensorial           Users         Sample Namber         48         98           Manning         Sample Namber         48         98           Manning         Sample Namber         48         98           Manning         Manning         58         98         98   | Samples Remaining 48  | Los ancora<br>detaile<br>detaile<br>Los angle Namber 44<br>Segle Number 44<br>Segle | Imples         Remaining         48           III         0         0         0           IIII         0         0         0           IIII         0         0         0 | $\bigcirc$   |
| 4384 PREV<br>4005  | NEXT  | PREV  |   | NEXT         |

3.5 Moving the gantry/arm during instrument setup:



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# 4 Maxwell RSC 48 Setup and Run

4.1 Scanning sample trays and verifying run data:

|            | SCAN TRAYS                               | PREPROCESSING INFO ?   |  |
|------------|--|--|--|
| <i>.</i> ? | Front Tray Barcode Back Tray Barcode     | Front Tray Front Tray Barcode: F20002119 Date Modified: 3/9/2023 11:25:07 AM Kit ID: AS1550 TS |  |
| •)         | Tray barcodes must start with 'F' or 'B' | Barcode: - Back Tray No Data Found CONTINUE NEW CANCEL   |  |
|            | CONTINUE                                 |  |  |

4.2 Instrument loading checklist:

|          | EXTRACTION CHECKLIST  | ? |
|----------|---|---|
| 0        | Sample pre-processing is complete as per the DNA IQ Casework Technical Manual<br>Deck tray has been prepared as follows and placed in the instrument:<br>• Cartridges with seals completely removed placed at positions 1-24<br>• Samples have been placed in well 1 of each cartridge<br>• Elution tubes placed at positions 1-24 with caps opened and facing away from the cartridges<br>• Appropriate volume of elution reagent has been added to each elution tube<br>• Plunger has been placed in well 8 of each cartridge |   |
| <b>0</b> | Plungers are not present on instrument plunger bar           START         CANCER   | L |

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# 5 Maxprep Post-Processing Run Setup

5.1 Selecting the method:

| ۲               |   | <b>ኡ – □ ? </b> €  |                    |  |  |  |
|-----------------|---|--|--------------------|--|--|--|
|                 | Scan the reagent kit barcode or enter it manually         |  |                    |  |  |  |
| FILTER          |   | TYPE SAMPLE TYPE   | CATALOG ID VERSION |  |  |  |
| Method Type     | Maxwell® FSC DNA IQ <sup>®</sup> - Tubes The Maxwell® FSC | C DNA IQ™ Casework Kit is designed for optimal Pre-Processing DNA  | A\$1550 1.2.0      |  |  |  |
| Pre-processing  | 40ul Elution Volume The Maxwell® FSC DNA                  | $IQ^\infty$ Casework Kit is designed for optimal DNA extraction from forensic casework samples. These sa | imples may inclu   |  |  |  |
| Post-processing | CR Setup This method will ;                               | repare both quantitative and end-point PCR rea Post-processing Universal                                 | 1.2.1              |  |  |  |
| Sample Type     | Promega DNA Normalization and STR Setup This method will  | assemble STR typing reactions containing a targ Post-processing DNA                                      | 1.2.1              |  |  |  |
| DNA             | Sample Transfer This method will t                        | ransfer part or all of your sample into new labw Post-processing Universal                               | None 1.2.0         |  |  |  |
| RNA Universal   | 40ul - Transfer This method will transfe                  | r part or all of your sample into new labware.   |                    |  |  |  |

5.2 Adding the deck sample trays and importing sample data:

|                      | Enter sample information to |  |  |  |
|----------------------|-----------------------------|--|--|--|
| 48 samples imported  |                             |  |  |  |
| Scan First RSC Tray  | F20002119                   |  |  |  |
| Scan Second RSC Tray | B20001973                   |  |  |  |
| Corry Portal         |                             |  |  |  |
| Exit                 |                             |  |  |  |