LiquidScan® Quick Start Guide

Enrich your cell and exosome populations for precision medicine.

Revision 1

Introduction

This Quick Start Guide will help you operate the basic functions of the LiquidScan® System.

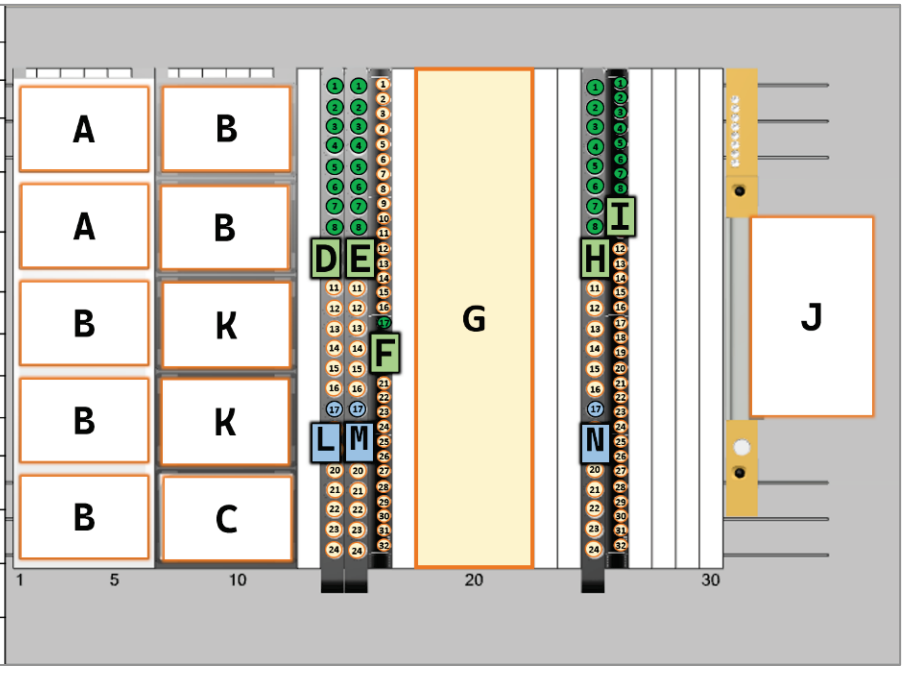
⚠ **Safety Precautions:** Wear appropriate Personal Protective Equipment (PPE) when handling biohazardous materials. Read the LiquidScan User Manual carefully for operation safety.

LiquidScan STARlet

1 On/Off Switch
2 Carriers
3 Deck Area
4 LiquidScan Module
5 Loading Tray
6 Autoload Unit
7 Pipetting Head
8 Front Cover
9 Biohazard Waste Area

Deck Layout

A	1000 µL Tips
B	300 µL Tips
C	Plate Holder
D	Multi Load Sample Tubes
E	Flow Through Tubes
F	USER Enzyme Position 17
G	Microfluidic Chips
H	Waste Tubes
I	Elution Tubes
J	Waste Bag
K	Alternate Eluate Positions
L	Single Load Sample Tube
M	Single Tube Flow Through
N	Single Tube Elution



Basic Operations

Step 1: Start LiquidScan®

1. Switch on the LiquidScan STARlet.
2. Open **Microlab STAR Maintenance and Verification software**.
3. Run **Daily Maintenance** by clicking on the green play button.
4. Run **Weekly Maintenance** when required.
   Note: Daily Maintenance is not required when Weekly Maintenance is performed.
5. Follow all onscreen prompts until maintenance is complete.

Step 2: Preparation of Kit and Samples

1. Bring LiquidScan Microfluidic Chips and Reagent Plate to room temperature for 15-30 minutes.
2. Centrifuge the LiquidScan Reagent Plate for 1 minute at 1000xg.
3. Prepare USER Enzyme:

Chip Count	Nuclease Free Water	CutSmart Buffer	USER	Total
8 Chip	200 µl	40 µl	160 µl	400 µl
4 Chip	110 µl	22 µl	88 µl	220 µl

4. Vortex, then centrifuge to remove bubbles on liquid surface.
5. Prepare samples. Ensure 0.5mL dead volume and remove bubbles from liquid surface.

Step 3: Log in to LiquidScan Software

1. Open **LiquidScan Software**.
2. Sign in with the login information.

Step 4: Choose the Workflow of Interest

1. To choose a workflow, click on the dropdown menu under **Select Workflow**.
2. You may filter the workflow list by selecting Chip Number, Release Method, or Sample Tube Number.
3. Click **Continue**.

Step 5: Complete Module Check

1. Verify that all components are placed in the correct location on the robot.
2. Click **Continue**.

Step 6: Complete the Deck Layout

1. Use the diagram to verify that all the items are placed correctly on the robot.
2. Ensure that all the components are pushed all the way in.
3. See below for important chip instructions.
4. Click **Continue**.

IMPORTANT:
When loading the LiquidScan Chips:

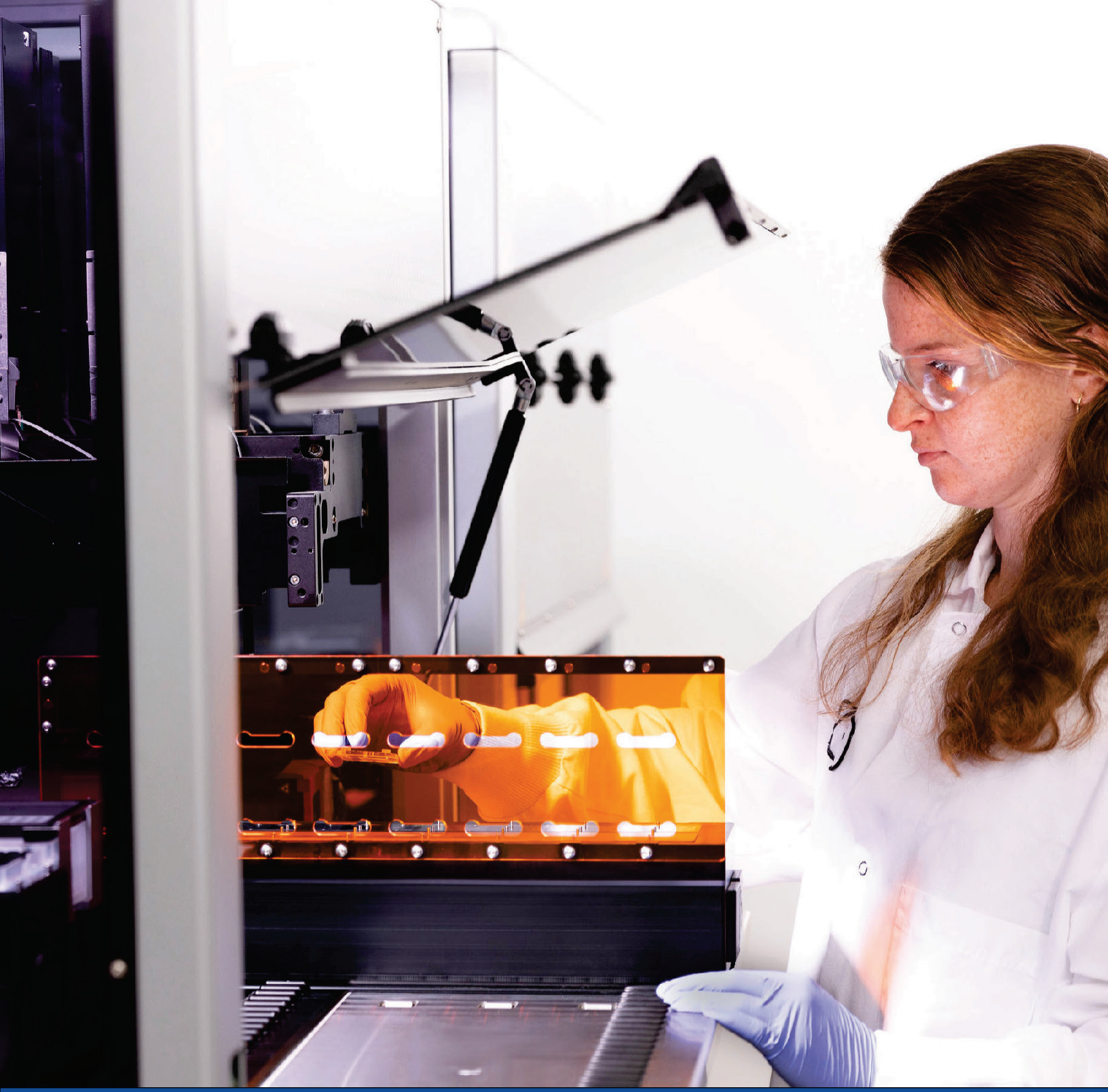
1. Ensure that there is PBS in the ports.
2. Ensure that the chips are pulled towards the bottom right corner of the LiquidScan Module component.

Step 7: Complete the Checklist

1. Click on the checkbox once the task is completed.
2. Click **Begin Run**.

Step 8: Run the Workflow

1. Click **Continue** when the **Step Selection** is prompted.
2. Remove tubes and clean according to User Manual.



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