

VeriSeq NIPT Workflow Manager Customer Release Notes

Version 2.5.7

For Veriseq NIPT Microlab Star

February 14, 2023

Introduction

These Release Notes detail the key changes to software components for the new VeriSeq NIPT Workflow Manager v2.5.7. The previous SW version was VeriSeq NIPT Workflow Manager v2.4.1.

This is a *mandatory* update for all customers. This SW update will enable customers to use the new Illumina Reagent Tubs (replacing the obsolesced Roche Tubs).

The software package includes:

- The VeriSeq NIPT Workflow Manager v2.5.7 and all subcomponents including the following methods:
 - VeriSeq NIPT Workflow Method (v2.5.7)
 - VeriSeq NIPT Batch Manager (v2.11.6)
 - VeriSeq NIPT Services Method (v2.10.7)
 - VeriSeq Workflow Manager Installer Package (v2.5.7)

NEW FEATURES:

Liquid Handling Improvements:

- Standard curve dilution is performed in column 6 of the plate instead of column 1 using channel 8 of the 8-channel arm.
- Changes to liquid handling to prevent a rare event in which a clogged well could overflow before the clog check prevented the addition of more liquid.
- Volume verification improved to accommodate new Illumina reagent tubs, as well as the existing Roche MagNA pure tubs.

User Requested Improvements:

- Detect and notify users of any discrepancy between the number of samples in batch configuration and the number of samples in sample sheet.
- Display binding plate barcode in "Reload binding Plate" dialogue box in cfDNA Extraction sub-method.
- Display quantification plate barcode on the "Select Quantitation File" dialogue box in Quantification sub-method.
- Verify tip carriers' presence after dry spin during Extraction Method.
- During Library method setup step, carriers are now loaded sequentially to match the loading strategy in other methods.

Cybersecurity updates:

- Removed API password configuration box from "Server Configuration" interface as inputted passwords were displayed as plain text. Updates to the API password are now performed by Illumina field service personnel.

Software Development Lifecycle Requirements:

- Updated subcomponent numbers – Method, Batch Manager and Service versions all updated to reflect software changes in this release.
- Added unique device identifier to WFM user interface.

FIXED ISSUES:

- WFM will provide an error message if the following sample names are provided in a sample sheet "<Blank>", "NA", "na", "UNKNOWN", "unknown", "UNDETERMINED", "undetermined", "NAN", "nan", "INF", "inf", "NONE", "none", "NUL", "nul", "NULL", "null", "NOTHING", "nothing", "ANY", "any".
- Ensure necessary volume of plasma is delivered to the final plasma plate during isolation.
- Updated MTEC Library version from v1.2.4 to v1.2.7 to reduced frequency of CPAC communication errors with WFM software.
- Fixed error handling script to prevent the method from aborting in certain COM port configurations.
- Updated software to display "VeriSeq NIPT Workflow Manager v2" instead of "VeriSeq NIPT Workflow Manager" on several user interface elements.

Release History

Revision	Release Reference	Originator	Description of Change
00	1082271	Pooja Iyer	Initial release