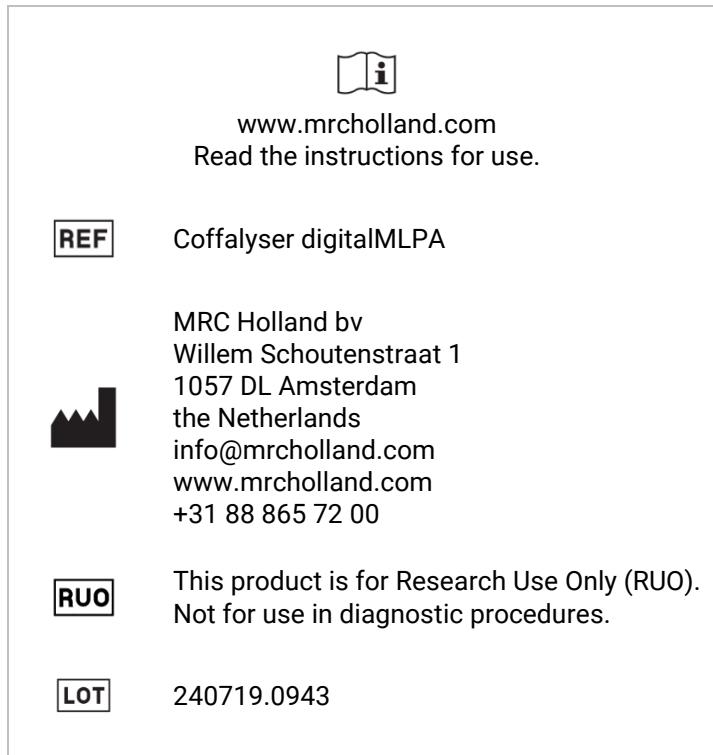




Coffalyser digitalMLPA™ Release Notes



General information

Coffalyser digitalMLPA™ is Research Use Only (RUO) software designed for the analysis of SALSA® digitalMLPA™ data generated using a SALSA® digitalMLPA™ probemix* as described in the digitalMLPA General Protocol.

* To be used in combination with a SALSA® digitalMLPA™ Reagent Kit and one or multiple SALSA® digitalMLPA™ barcode plates.

Version numbers

Software version 240719.0943

Module versions:

Configuration	2024-07-19 09:43
Data conversion	2021-10-19 09:58
Fragment analysis	2021-10-19 09:58
Comparative analysis	2021-10-19 09:58
Extended analysis	n/a
Reporting	2021-10-19 09:58

Changes in Coffalyser digitalMLPA compared to previous versions

Table 1 Overview of changes per release

		Summary of changes
Release	v240719.0943	Product sheet for lot D001-D1-0124 added to configuration module
	v221020.1234	Product sheets for lots D006-A1-1022 and D007-A1-0922 added to configuration module
	v220221.1522	Product sheet for lot D001-C1-1221 added to configuration module
	v211020.1245	Changes in data processing, quality checking and reporting as well as implementation of bug fixes to improve performance. Product sheet for lot D001-B1-1119 updated.

Table 2 Overview of changes per probemix lot per release

		Product sheets					
		D001				D006	D007
		B1-1119	B1-0421	C1-1221	D1-0124	A1-1022	A1-0922
Release	v240719.0943	No changes	No changes	No changes	New	No changes	No changes
	v221020.1234	No changes	No changes	No changes	-	New	New
	v220221.1522	No changes	No changes	New	-	-	-
	v211020.1245	Data processing, quality checking and reporting updated. Updated product sheet.	Data processing, quality checking and reporting updated. Product sheet unchanged.	-	-	-	-

We recommend to always use the latest version of Coffalyser digitalMLPA. For software and product sheet updates in bold, (re)validation is recommended.

Software version 240719.0943

Configuration: 2024-07-19 09:43 | Data conversion: 2021-10-19 09:58 | Fragment analysis: 2021-10-19 09:58 | Comparative analysis: 2021-10-19 09:58 | Extended analysis: n/a | Reporting: 2021-10-19 09:58.

General

- Configuration module version modified to accommodate new commercially available digitalMLPA probemixes.

Probemix-specific

D001-D1:

- Product sheet released for lot D001-D1-0124 for research use only (RUO).

D001-C1:

- Product sheet for lot D001-C1-1221 remains unchanged.

D001-B1:

- Product sheets for lot D001-B1-1119 and D001-B1-0421 remain unchanged.

D006-A1:

- Product sheet for lot D006-A1-1022 remains unchanged.

D007-A1:

- Product sheets for lot D007-A1-0922 remain unchanged.

Software version 221020.1234

Configuration: 2022-10-20 12:34 | Data conversion: 2021-10-19 09:58 | Fragment analysis: 2021-10-19 09:58 | Comparative analysis: 2021-10-19 09:58 | Extended analysis: n/a | Reporting: 2021-10-19 09:58.

General

- Configuration module version modified to accommodate new commercially available digitalMLPA probemixes.
- Product sheets for previous limited-release probemix versions removed from the configuration module.

Probemix-specific

D006-A1:

- Product sheet released for lot D006-A1-1022 for research use only (RUO).

D007-A1:

Product sheets released for lot D007-A1-0922 for research use only (RUO): *D007-A1 default product sheet* and *D007-A1 near haploid_low hypodiploid product sheet*.

D001-C1:

- Product sheet for lot D001-C1-1221 remains unchanged.

D001-B1:

- Product sheets for lot D001-B1-1119 and D001-B1-0421 remain unchanged.

Software version 220221.1522

Configuration: 2022-02-21 15:22 | Data conversion: 2021-10-19 09:58 | Fragment analysis: 2021-10-19 09:58 | Comparative analysis: 2021-10-19 09:58 | Extended analysis: n/a | Reporting: 2021-10-19 09:58.

General

- Configuration module version modified to accommodate commercially available digitalMLPA probemixes.

Probemix-specific

D001-C1:

- Product sheet released for lot D001-C1-1221 for research use only (RUO).

D001-B1:

- Product sheets for lot D001-B1-1119 and D001-B1-0421 remain unchanged.

Software version 211020.1245

Configuration: 2021-10-20 12:45 | Data conversion: 2021-10-19 09:58 | Fragment analysis: 2021-10-19 09:58 | Comparative analysis: 2021-10-19 09:58 | Extended analysis: n/a | Reporting: 2021-10-19 09:58.

General

Data processing:

- An option is included to ignore undefined samples (barcodes) present in the FASTQ file(s) and exclude these from analysis.
- Assignment of reads to probes is updated to avoid the possibility of reads being assigned to more than one probe, which would prevent the analysis from continuing.
- Coffa files generated by previous releases are not compatible with this release. Any re-analysis should start from the FASTQ file(s).
- Inter-normalisation of reference samples is updated.
- The number of reads required per sample when the sample was not included in the experiment definition has been increased to avoid the creation of unnecessary undefined experiment(s).
- Barcode plates 3 and 4 are added to allow analysis of experimental data in which SALSA digitalMLPA Barcode Plates 3 and 4 are used.

Quality checking:

- A warning is added to the Quality table in the report in case less than three reference samples are included in an experiment with defined reference samples.
- A warning is included to the Quality table in the report in case there are probes present in the sample that cannot be classified due to inadequate normalisation.
- Reference Sample Quality problems will be penalised more severely, and issues will therefore more easily result in sample quality failure.
- DNA input estimation calculation updated.
- Processing of depurination sensitive control probes is updated.

Reporting:

- The Overview.pdf report has been updated:
 - o Various small textual and lay-out changes.
- The General Details.pdf report has been updated:
 - o *Product selection* field updated and renamed to *Product detection*.
 - o Quality Table updated:
 - New checks on *product detection*, *probes not being classified* and *number of reference samples* added.
 - *Read depth (qualified)* and *disqualified lot identification probes* removed.
 - Order of checks updated.
 - o Various small textual and lay-out changes.
- The Sample Results.pdf report has been updated:

- *Product selection* field updated and renamed to *Product detection*.
- Quality Table updated:
 - New checks on *product detection*, *probes not being classified* and *number of reference samples* added.
 - *Read depth (qualified)* and *disqualified lot identification probes* removed.
 - Order of checks updated.
- Colouring of *Inter ratio*, *Within normal range* and *Different from reference population columns* changed when data is incomplete.
- Various small textual and lay-out changes.
- The No Dna.pdf report has been updated:
 - Various small textual and lay-out changes.
- The Ratios.xlsx report has been updated:
 - File format changed from .xls to .xlsx.
 - Additional tab containing Reference Sample Quality data added.
 - Ratios in the Inter ratios sheet with missing classification are highlighted in grey.
 - Various small textual and lay-out changes.

Bug fixes:

- Version number of Configuration as displayed on reports is made independent of local time settings of computer.
- Memory usage is reduced during report generation to prevent out-of-memory error.
- Regional reporting issues are fixed.
- In Command Line Interface additional checks are included to ensure the same Product Sheet is used during the complete analysis.

Other:

- Required .NET Framework version is changed from 4.7 to 4.8.
- Link to Coffalyser digitalMLPA User Manual on website is added to the start screen.
- Various small textual and lay-out changes in the Graphical User Interface.

Related to the Coffalyser digitalMLPA Release Notes:

- Intended purpose on first page of these Release Notes renamed to General information as the Coffalyser digitalMLPA software is intended for Research Use Only.
- SALSA® Barcode Solutions updated to SALSA® Barcode Solutions Plates.

Probemix-specific**D001-B1:**

- Product sheet for lot D001-B1-0421 remains unchanged.
- Product sheet for lot D001-B1-1119 contains updated information.