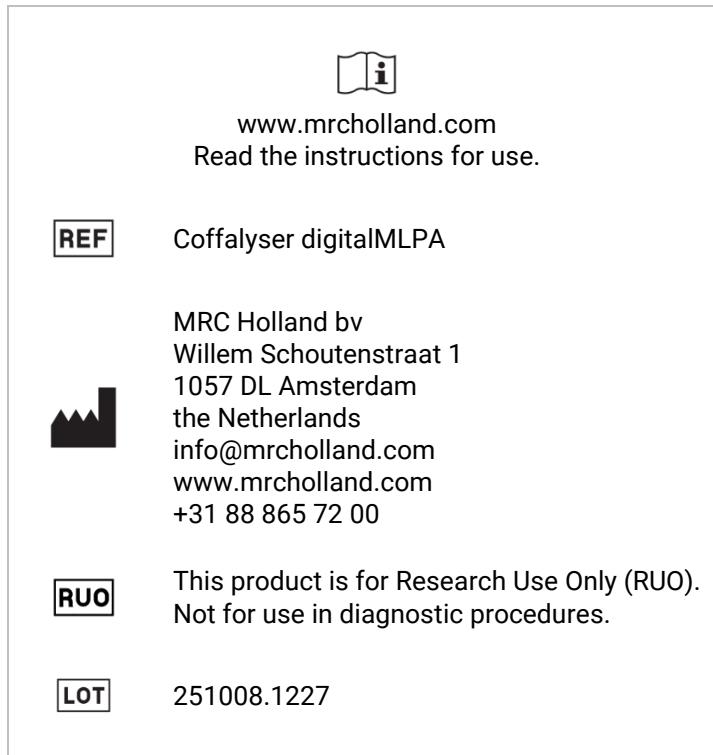




Coffalyser digitalMLPA™ Release Notes



General information

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

* To be used in combination with a NXtec Reagent Kit and one or multiple NXtec barcode plates.

Version numbers

Software version 251008.1227

Module versions:

Configuration	2025-10-08 12:27
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	v251008.1227	Product sheets for lots D002-A1-0225 and D024-A1-0125 added. Product sheets for lots D001-D1-0124, D006-A1-1022 and D007-B1-0124 updated. Minor changes in the configuration module related to barcode collections, lot detection and read assignment to improve performance.
	v241105.1259	Product sheet for lot D006-A1-1022 updated in configuration module, product sheet for lot D007-B1-0124 added to configuration module
	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

			Release					
			v211020.1245	v220221.1522	v221020.1234	v240719.0943	v241105.1259	v251008.1227
Product sheets	D001	B1-1119	Major update*	No changes	No changes	No changes	No changes	No changes
		B1-0421	Major update*	No changes	No changes	No changes	No changes	No changes
		C1-1221	-	New	No changes	No changes	No changes	No changes
		D1-0124	-	-	-	New	No changes	Minor update of product sheet.
	D002	A1-0225	-	-	-	-	-	New
		A1-1022	-	-	New	No changes	Updated borders in product sheet.	Updated borders in product sheet.
	D007	A1-0922	-	-	New	No changes	No changes	No changes
		B1-0124	-	-	-	-	New	Updated borders in product sheet.
	D024	A1-0125	-	-	-	-	-	New

* See Table 1 for details.

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 251008.1227

Configuration: 2025-10-08 12:27 | 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:**

- Configuration modified to accommodate new commercially available NXtec probemixes.
- Barcode collections updated to be compatible with XLEAP-SBS chemistry.
- Previous limited-release barcode collection removed from the configuration module.
- Improved lot detection in DNA samples, in particular for large probemixes and oncogenetic applications.
- Improved lot detection in no-DNA samples in combination with XLEAP-SBS chemistry.
- Improved read assignment in combination with XLEAP-SBS chemistry.

Related to the Coffalyser digitalMLPA Release Notes:

- Product names were updated in the General Information from SALSA® digitalMLPA™ to NXtec™.

Probemix-specific**D001-D1:**

- Minor update of product sheet for lot D001-D1-0124, including a small adjustment in DNA contamination detection and SNP code analysis for sample identification.

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.

D002-A1:

- Product sheet released for lot D002-A1-0225 for research use only (RUO).

D006-A1:

- Product sheet for lot D006-A1-1022 was updated with adjusted borders as well as a minor adjustment in SNP code analysis for sample identification. See Product Description for details.

D007-A1:

- Product sheet for lot D007-A1-0922 remains unchanged.

D007-B1:

- Product sheets for lot D007-B1-0124 were updated with adjusted borders as well as a minor adjustment in SNP code analysis for sample identification. See Product Description for details.

D024-A1:

- Product sheet released for lot D024-A1-0125 for research use only (RUO).

Software version 241105.1259

Configuration: 2024-11-05 12:59 | 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 for lot D001-D1-0124 remains unchanged.

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 was updated with adjusted borders, see Product Description for details.

D007-A1:

- Product sheet for lot D007-A1-0922 remains unchanged.

D007-B1:

- Product sheets released for lot D007-B1-0124 for research use only (RUO): *D007-B1 default product sheet* and *D007-B1 near haploid_low hypodiploid product sheet*.

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:
 - 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 Colouring of *Inter ratio*, *Within normal range* and *Different from reference population* columns changed when data is incomplete.
 - o Various small textual and lay-out changes.
- The No Dna.pdf report has been updated:
 - o Various small textual and lay-out changes.
- The Ratios.xlsx report has been updated:
 - o File format changed from .xls to .xlsx.
 - o Additional tab containing Reference Sample Quality data added.
 - o Ratios in the Inter ratios sheet with missing classification are highlighted in grey.
 - o 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.