Coffalyser
digitalMLPA

Coffalyser digitalMLPA™ Release Notes

ⓘ

www.mrcholland.com
Read the instructions for use.

REF   Coffalyser digitalMLPA

MRC Holland bv
Willem Schoutenstraat 1
1057 DL Amsterdam
the Netherlands
info@mrcholland.com
www.mrcholland.com
+31 88 865 72 00

RUO   This product is for Research Use Only (RUO).
Not for use in diagnostic procedures.

LOT   221020.1234

General information

Coffalyser digitalMLPA is Research Use Only (RUO) software designed for the analysis of 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 SALSA® Barcode Solutions Plates.

Version numbers

Software version   221020.1234

Module versions:

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

Coffalyser
digitalMLPA

Changes in Coffalyser digitalMLPA compared to previous versions

Table 1 Overview of changes per release

		Summary of changes
Release	*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.**
	v210729.1257	Product sheet for lot D001-B1-0421 and a restricted product sheet added to configuration module
	v201211.1315	Restricted product sheet added to configuration module
	v201007.1443	Restricted product sheet added to configuration module
	v200609.0921	**First external release**

Table 2 Overview of changes per probemix lot per release

		Product sheets				
		D001			D006	D007
		B1-1119	B1-0421	C1-1221	A1-1022	A1-0922
Release	*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.**	-	-	-
	v210729.1257	No changes	**New**	-	-	-
	v201211.1315	No changes	-	-	-	-
	v201007.1443	No changes	-	-	-	-
	v200609.0921	**New**	-	-	-	-

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

C;ffalyser
digitalMLPA

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® Barcode Solutions 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.

Software version 210729.1257

Configuration: 2021-07-29 12:57 UTC | Data conversion: 2020-05-12 20:10 | Fragment analysis: 2020-05-12 20:10 | Comparative analysis: 2020-05-12 20:10 | Extended analysis: n/a | Reporting: 2020-05-12 20:10.

General

- Configuration module version modified to accommodate commercially available and limited-release[#] digitalMLPA probemixes.

Probemix-specific [#]

D001-B1:

- Product sheet released for lot D001-B1-0421 for research use only (RUO).
- Product sheet for lot D001-B1-1119 remains unchanged.

Software version 201211.1315

Configuration: 2020-12-11 13:15 UTC | Data conversion: 2020-05-12 20:10 | Fragment analysis: 2020-05-12 20:10 | Comparative analysis: 2020-05-12 20:10 | Extended analysis: n/a | Reporting: 2020-05-12 20:10.

General

- Configuration module version modified to accommodate a limited-released[#] digitalMLPA probemix. This change does not affect analysis of the D001-B1 probemix.

Software version 201007.1443

Configuration: 2020-10-07 14:43 UTC | Data conversion: 2020-05-12 20:10 | Fragment analysis: 2020-05-12 20:10 | Comparative analysis: 2020-05-12 20:10 | Extended analysis: n/a | Reporting: 2020-05-12 20:10.

General

- Configuration module version modified to accommodate a limited-released[#] digitalMLPA probemix. This change does not affect analysis of the D001-B1 probemix.

Software version 200609.0921

Configuration: 2020-06-09 07:21 UTC | Data conversion: 2020-05-12 20:10 | Fragment analysis: 2020-05-12 20:10 | Comparative analysis: 2020-05-12 20:10 | Extended analysis: n/a | Reporting: 2020-05-12 20:10.

General

- External release.

Probemix-specific #

D001-B1:

- Product sheet released for research use only (RUO).