COA Version 01; Issued 07 May 2020

Certificate of Analysis
SALSA® Binning DNA SD086

Catalogue #	**SD086**
Product name	**SALSA® Binning DNA SD086**
LOT	**S01-0919**

Σ	6 reactions.	
Shipping conditions	Dry ice or cooling elements.	
	Store upon arrival between -25 °C and -15 °C.	
	Expiration date: September 2024, when stored at recommended conditions.	
Use	To be used with SALSA MLPA ME011-D1 probemix (Mismatch Repair Genes) and SALSA MLPA reagent kits as described in the MLPA General Protocol and the corresponding probemix product description.	
Quality Test 1	The SNP- and the mutation-specific probes, as described in the product description, produce a signal at the designed length.	PASS
Quality Test 2	The signal of the SNP- and the mutation-specific probes when tested with wild-type genomic DNA is <5% of the peak height generated when tested with SD086 SALSA Binning DNA.	PASS
Quality Test 3	Signals of the SNP- and the mutation-specific probes when tested with SD086 SALSA Binning DNA is at least 15% in peak height of the average probe signal of the 10 neighbouring probes.	PASS
Quality Test 4	The 105 nt chromosome Y specific control probe should generate a signal on SD086 SALSA Binning DNA which is similar (+/-20%) to the signal obtained on wild-type male genomic DNA.	PASS
Quality Test 5	All SALSA MLPA probemix ME011 (Mismatch Repair Genes) probes, other than the SNP- and the mutation-specific probes, show normal signals, similar (+/-20%) to the peak pattern obtained on wild-type genomic DNA. Note: As defined in the design specifications of SD086, the 172 nt methylation-specific probe (01686-L28585), is expected to show increased signal (one additional copy) on SD086 (ratio 1.3-1.65 expected) in the undigested MS-MLPA reaction and about 33% residual signal in the digested MS-MLPA reaction.	PASS

Based on the concentrations present, none of the ingredients are hazardous as defined by the Hazard Communication Standard. **A Safety Data Sheet (SDS) is not required for these products**: none of the preparations contain dangerous substances (as per Regulation (EC) No 1272/2008 [EU-GHS/CLP] and amendments) at concentrations requiring distribution of an SDS (as per Regulation (EC) No 1272/2008 [EU-GHS/CLP] and 1907/2006 [REACH] and amendments). If spills occur, clean with water and follow appropriate site procedures.

More information: www.mlpa.com; www.mlpa.eu	
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Certificate of Analysis

SALSA® Binning DNA SD086 sample pictures

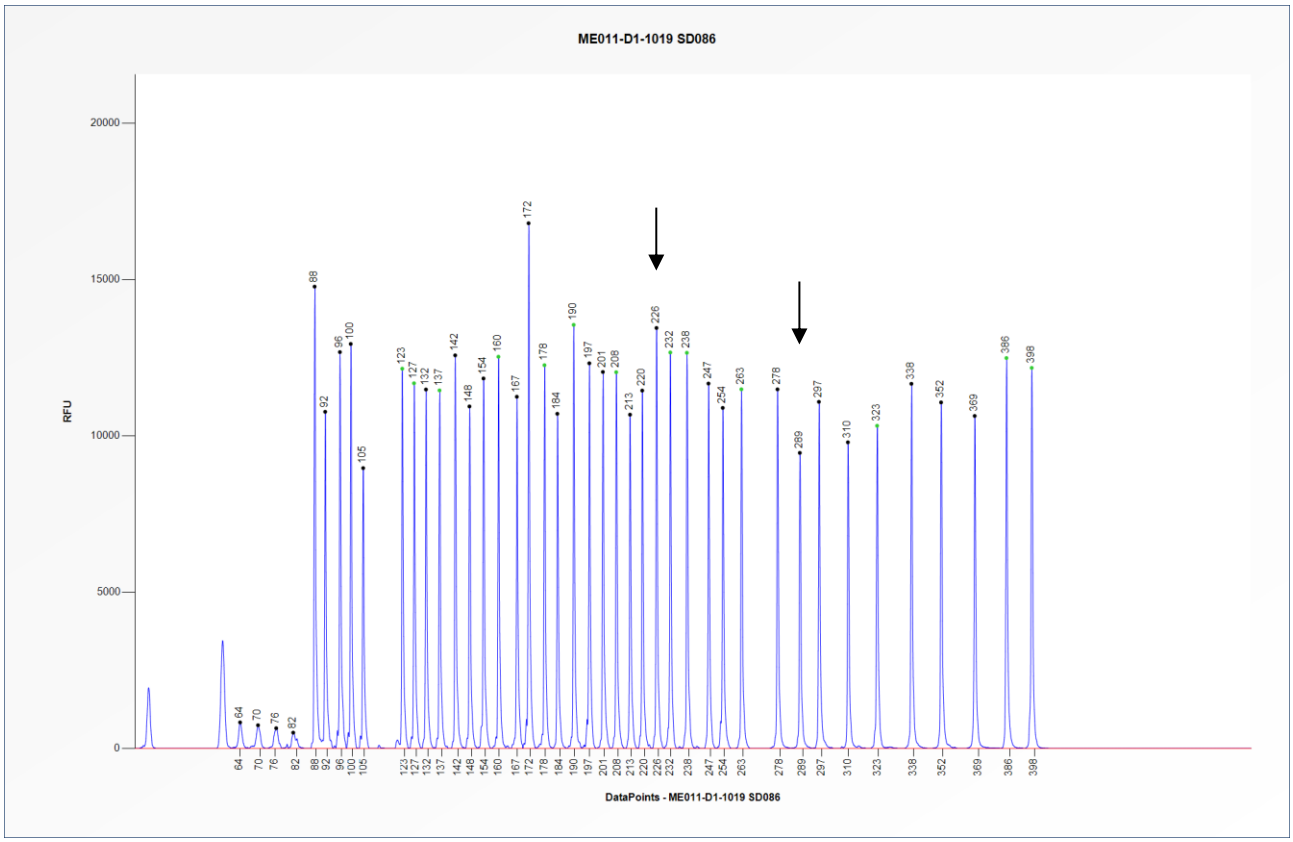

Figure 1. Capillary electrophoresis pattern from SD086-S01-0919 SALSA Binning DNA (approximately 50 ng) analysed with SALSA MLPA probemix ME011 Mismatch Repair Genes (D1-1019). The location of the mutation- and SNP-specific probes at 226 and 289 nt respectively are indicated. Probe peak heights may vary between probemix version D1 lots.

NOTE
The target sequence of 289 nt rs104894994 SNP-specific probe (22572-L31773) largely overlaps with the target sequence of the 172 nt methylation-specific probe (01686-L28585), resulting in increased signal (one additional copy) of 172 nt probe on SD086 (ratio 1.3-1.65 expected) in the undigested MS-MLPA reaction.

Certificate of Analysis

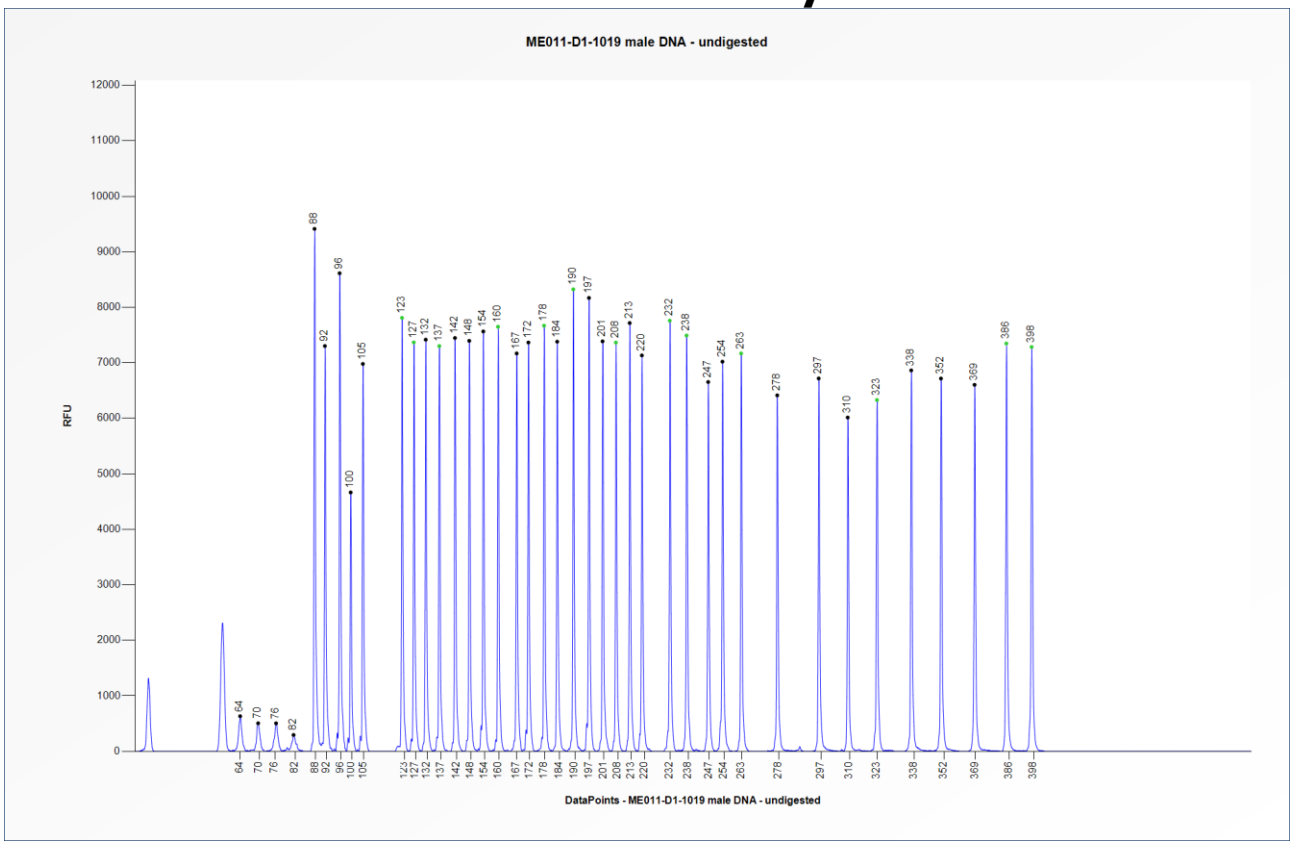

Figure 2. Capillary electrophoresis pattern from a sample of approximately 50 ng human male wild-type genomic DNA analysed with SALSA MLPA probemix ME011 Mismatch Repair Genes (D1-1019). Probe peak heights may vary between probemix version D1 lots.

This lot was certified by MRC-Holland on 30 April 2020.
This certificate is a declaration of analysis at the time of the manufacturing process. All assays were run in compliance with manufacturer's instructions for use.

Implemented changes in the COA
Version 01 - 07 May 2020 (04) - Not applicable, new document.