




Certificate of Analysis

SALSA® MS-MLPA® Probemix ME011 Mismatch Repair Genes

Catalogue #	ME011-025R, ME011-050R, ME011-100R	
Product name	Probemix ME011 Mismatch Repair Genes	
LOT	D1-1019	
	25, 50, or 100 reactions.	
Shipping conditions	Dry ice or cooling elements.	
	Store upon arrival between -25°C and -15°C.	
	Expiration date: October 2024, when stored at recommended conditions. This product should not be frozen/thawed more than 25 times.	
Use	This probemix is developed to be used for methylation and copy number status determination of promoter regions of <i>MLH1</i> , <i>MSH2</i> , <i>PMS2</i> and <i>MSH6</i> genes and for detection of the <i>BRAF</i> p.V600E point mutation. In addition, this assay can be used to detect deletions or duplications in the 3' region of the <i>EPCAM</i> gene. This probemix is designed for use only in combination with SALSA MLPA reagent kits, SALSA HhaI and Coffalyser.Net as described in the MS-MLPA General Protocol.	
Quality control specifications	<ul style="list-style-type: none"> - Sufficient distance between peaks, absence of extra or shoulder peaks, and completeness of hybridisation and HhaI digestion of each individual probe, as tested on Applied Biosystems and Beckman/SCIEX GeXP sequencers. - Standard deviation of each individual probe ≤ 0.10, when tested on 23 different DNA samples of healthy individuals, extracted by various methods. - Each individual probe meets reaction-specific criteria when tested on a single DNA sample under various experimental conditions. - No DNA controls result in only five major peaks shorter than 121 nucleotides (nt): four Q fragments at 64, 70, 76 and 82 nt, and one 19 nt peak corresponding to the unused portion of the fluorescent PCR primer. Non-specific peaks longer than 121 nt AND with a height <25% of the median of the four Q fragments are not expected to affect MLPA reactions when sufficient (50-250 ng) sample DNA is used. 	<p>Test result</p> <p style="text-align: center; font-weight: bold;">PASS</p>

None of the ingredients are derived from humans, animals, or pathogenic bacteria. 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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SALSA MS-MLPA Probemix ME011-D1 Mismatch Repair Genes
sample picture

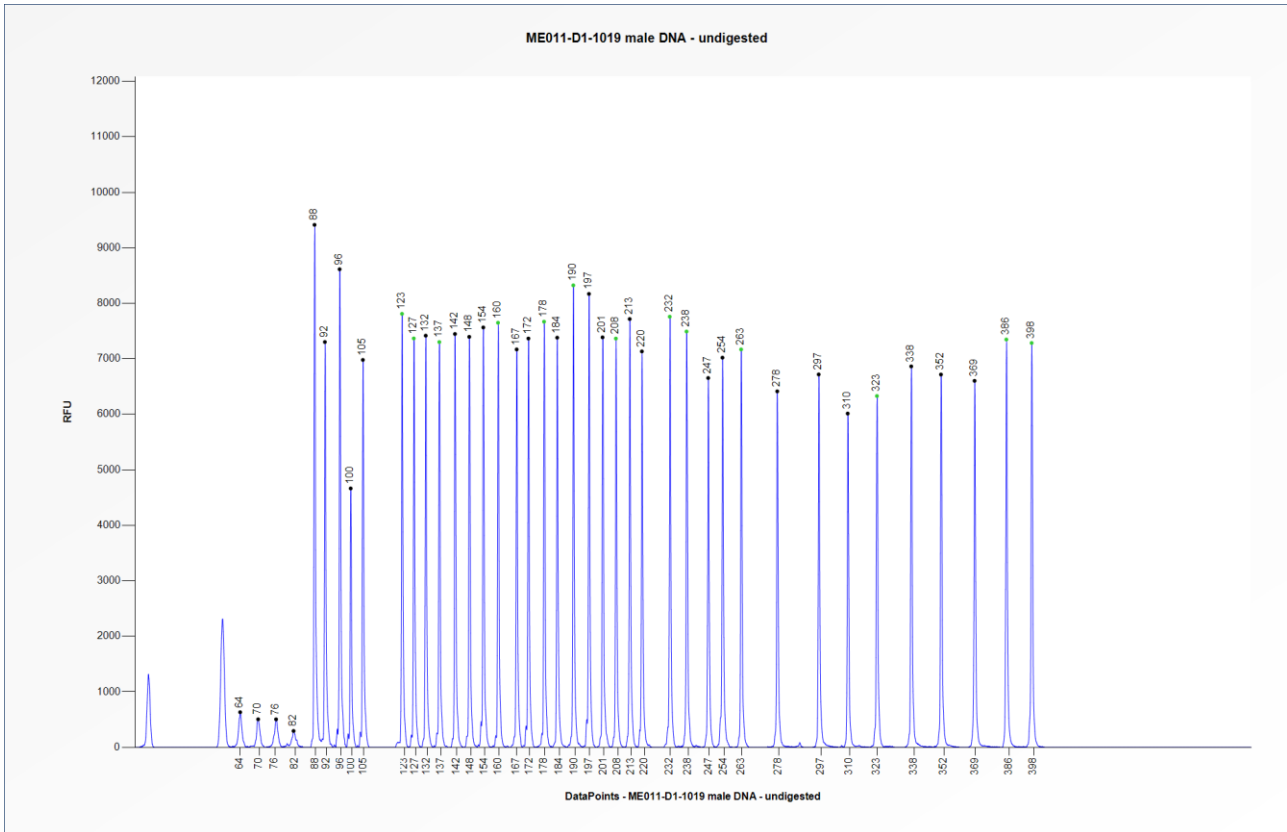


Figure 1. Capillary electrophoresis pattern from a sample of approximately 50 ng undigested human male control DNA analysed with SALSA MS-MLPA Probemix ME011 Mismatch Repair Genes (D1-1019) for the quantification of copy numbers.

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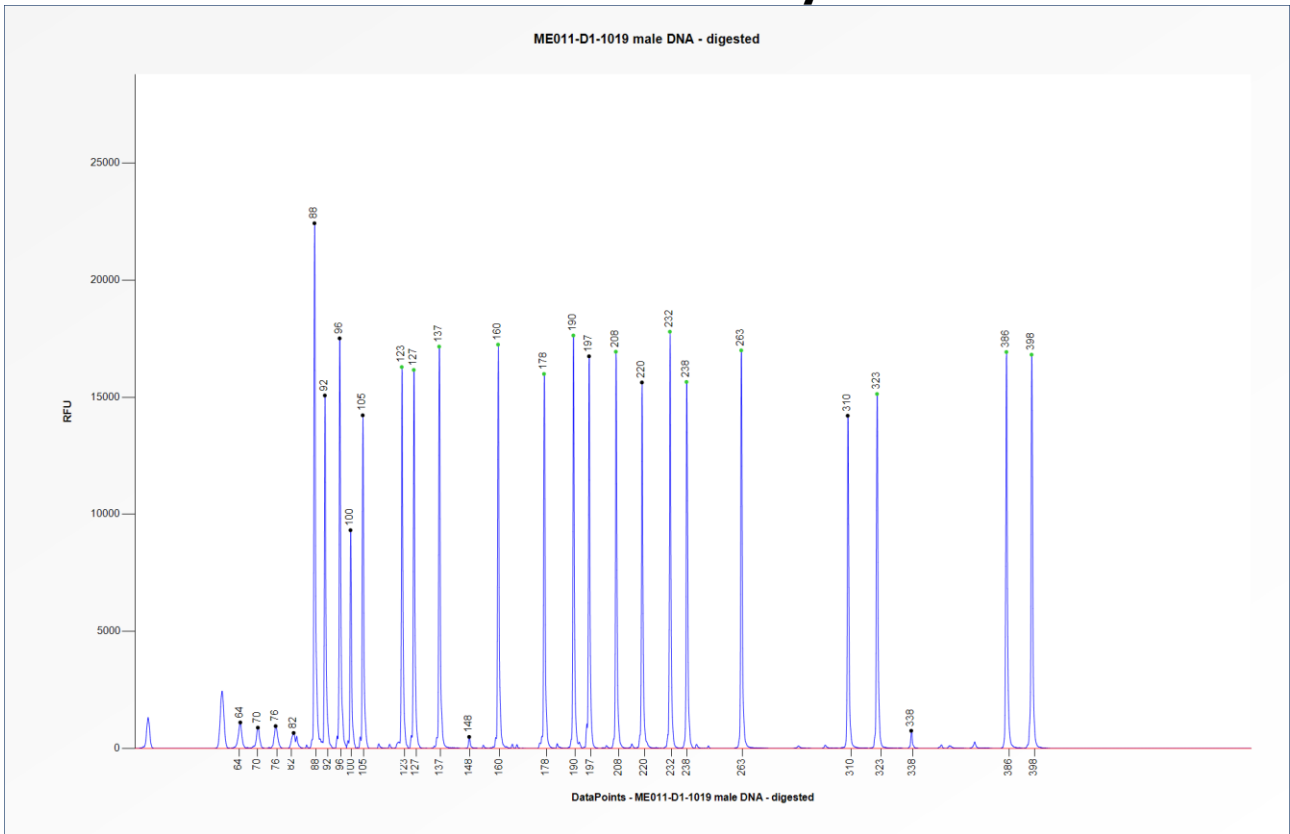


Figure 2. Capillary electrophoresis pattern from a sample of approximately 50 ng digested human male control DNA analysed with SALSA MS-MLPA Probemix ME011 Mismatch Repair Genes (D1-1019) to determine the methylation status.

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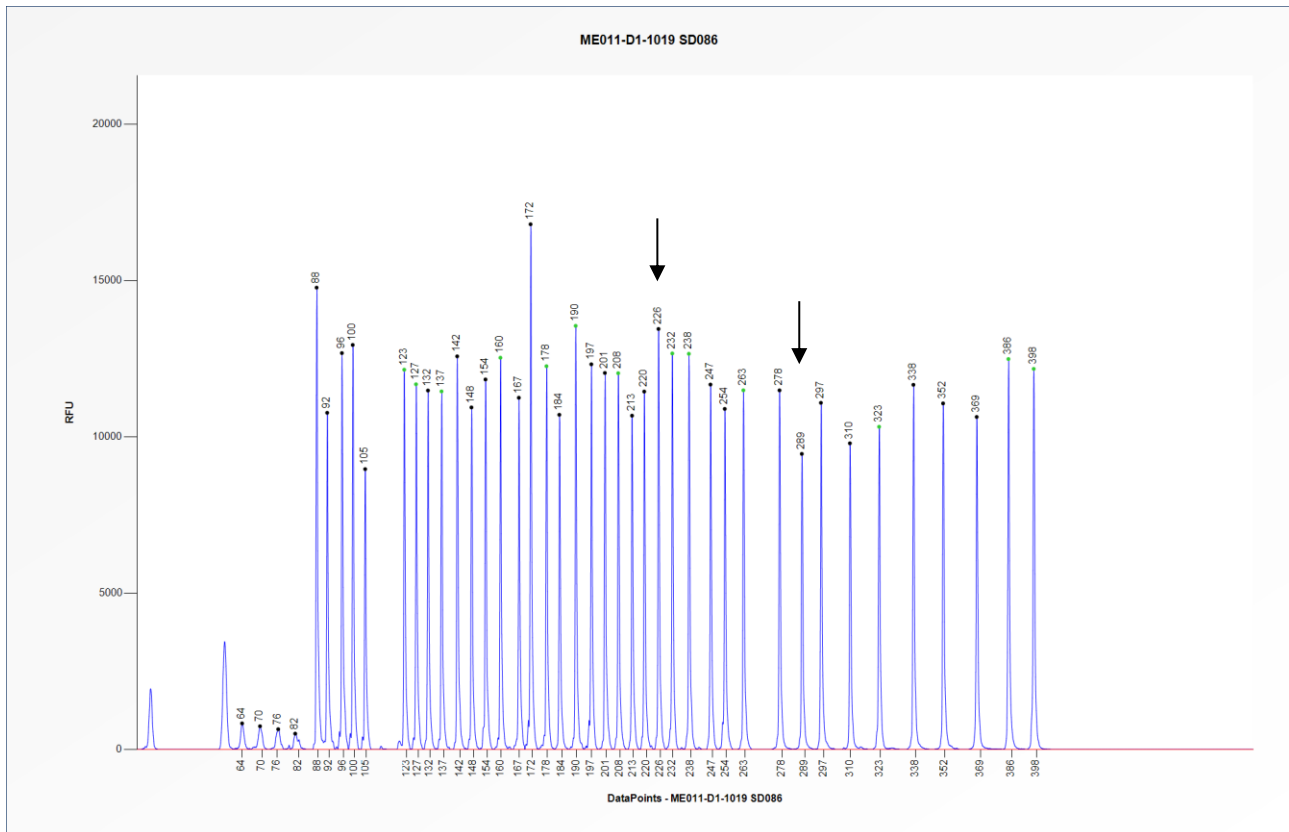


Figure 3. Capillary electrophoresis pattern from SALSA Binning DNA SD086-S01 (approximately 50 ng) analysed with SALSA MS-MLPA Probemix ME011 Mismatch Repair Genes (D1-1019). The locations of the *BRAF* p.V600E mutation- and rs104894994 SNP-specific probes at 226 and 289 nt are indicated.

This lot was certified by MRC-Holland on 21 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 – 21 April 2020 (02)

- Not applicable, new document.