

Certificate of Analysis

SALSA® MS-MLPA® Probemix ME001 Tumour suppressor mix

Catalogue #	ME001-025R, ME001-050R, ME001-100R
Product name	Probemix ME001 Tumour suppressor mix
LOT	D1-0322
Σ	25, 50, or 100 reactions.

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Shipping conditions	Dry ice or cooling elements.		
1	Store upon arrival between -25°C and -15°C.		
	Expiration date: March 2027, when stored at recommended conditio should not be frozen/thawed more than 25 times.	ns. This product	
Purpose	This probemix allows detection of methylation status of CpG islands upstream of genes for which an altered methylation in one or more types of tumours has been reported in literature. This probemix is designed for use only in combination with SALSA MLPA reagent kits, SALSA Hhal and Coffalyser.Net analysis software as described in the MS-MLPA General Protocol.		
Quality control specifications	 Sufficient distance between peaks, absence of extra or shoulder peaks, and completeness of hybridisation and Hhal 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. 	Test result	
	 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 peak in the range of 0-40 nt corresponding to the unused portion of the fluorescent PCR primer Note: We observed one prominent peak with a height >25% of the median of the four Q-fragments with length of approximately 117 nt in a No-DNA control, but we do not expect this peak to affect MLPA reactions when sufficient (50-250 ng) sample DNA is used. 	PASS	

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.mrcholland.com; www.mrcholland.eu		
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SALSA MS-MLPA Probemix ME001-D1 Tumour suppressor mix sample picture

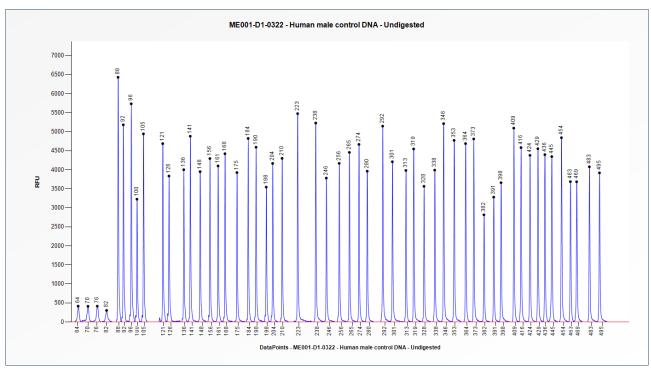


Figure 1. Capillary electrophoresis pattern from a sample of approximately 50 ng <u>undigested</u> human male control DNA analysed with SALSA MS-MLPA Probemix ME001 Tumour suppressor mix (D1-0322) for the quantification of copy numbers.

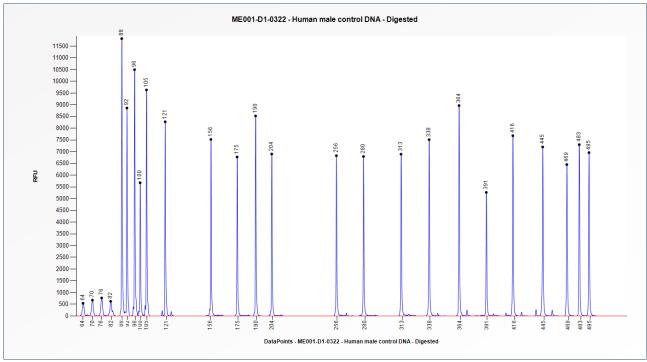


Figure 2. Capillary electrophoresis pattern from a sample of approximately 50 ng <u>digested</u> human male control DNA analysed with SALSA MS-MLPA Probemix ME001 Tumour suppressor mix (D1-0322) to determine the methylation status.



This lot was certified by MRC Holland on 28 February 2023.

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 - 01 March 2023 (4)

- Not applicable, new document.