Certificate of Analysis
SALSA® MS-MLPA® Probemix ME030 BWS/RSS

Catalogue #	**ME030-025R, ME030-050R, ME030-100R**
Product name	**Probemix ME030 BWS/RSS**
LOT	**D1-0124**

Σ	25, 50, or 100 reactions.
Shipping conditions	Dry ice or cooling elements.
	Store upon arrival between -25°C and -15°C.
	Expiration date: January 2029, when stored at recommended conditions. This product should not be frozen/thawed more than 25 times.
Purpose	This product has been developed to determine the DNA copy number and aberrant methylation of one or more sequences of the following differentially methylated regions (DMRs): *KCNQ1OT1*:TSS-DMR, *H19/IGF2*:IG-DMR, and *IGF2*:alt-TSS-DMR in the 11p15 chromosomal region and *MEST*:alt-TSS-DMR and *GRB10*:alt-TSS-DMR on chromosome 7, as described in table 1 and 2 of the product description This probemix is designed for use only in combination with SALSA MLPA reagent kits, SALSA HhaI and Coffalyser.Net analysis software as described in the MS-MLPA General Protocol.

Quality control specifications		Test result
	- 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 peak in the range of 0-40 nt 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. Note: We observed two prominent peaks below the 25% threshold with lengths of approximately 172 nt and 230 nt in a No-DNA control.	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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Certificate of Analysis
SALSA MS-MLPA Probemix ME030-D1 BWS/RSS sample pictures

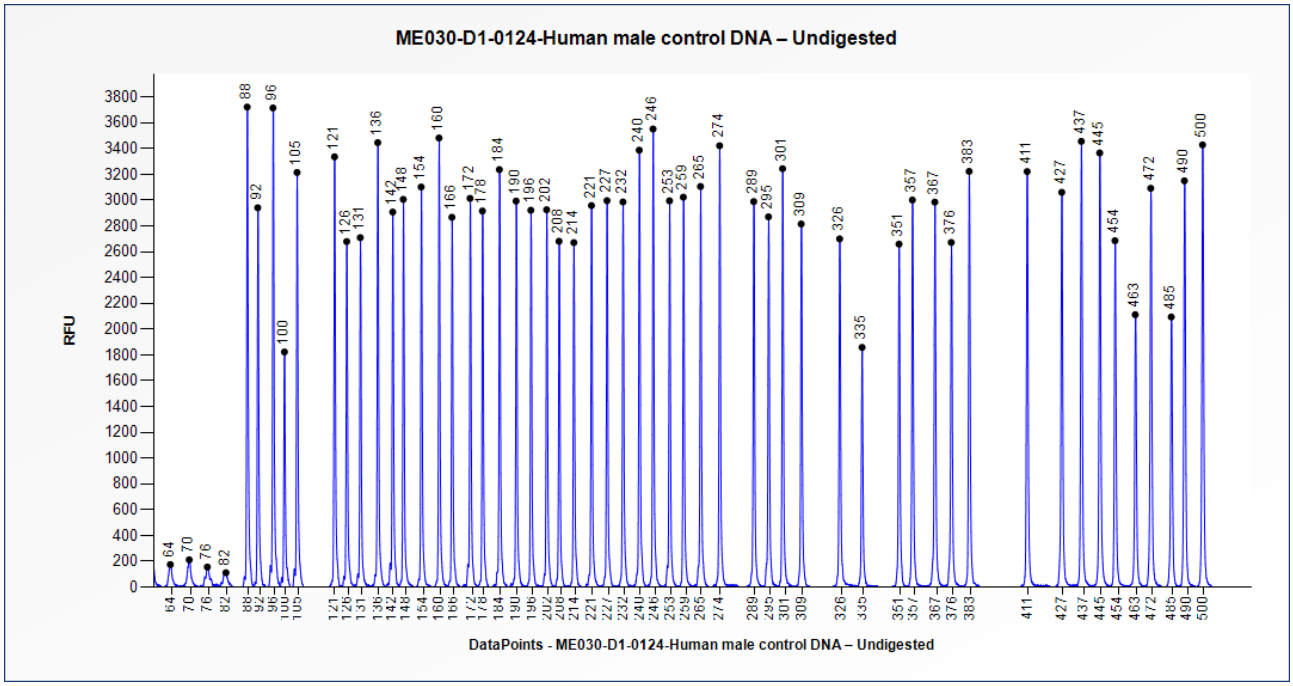

Figure 1. Capillary electrophoresis pattern from a sample of approximately 50 ng undigested human male control DNA analysed with SALSA MS-MLPA Probemix ME030 BWS/RSS (D1-0124) for the quantification of copy numbers.

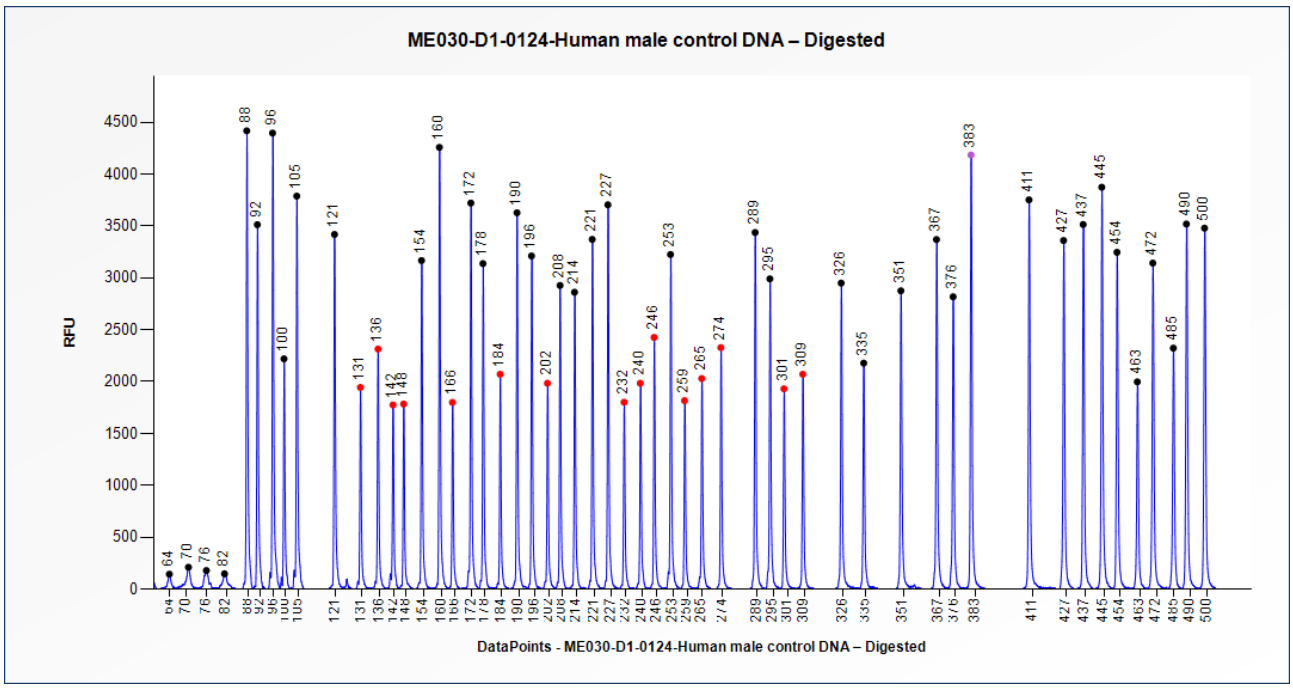

Figure 2. Capillary electrophoresis pattern from a sample of approximately 50 ng digested human male control DNA analysed with SALSA MS-MLPA Probemix ME030 BWS/RSS (D1-0124) to determine the methylation status.

This lot was certified by MRC Holland on 07 May 2024.

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 02 – 04 December 2024 (4) - Small change of three probe lengths in the sample pictures in order to better reflect the true lengths of the amplification product, for the probes at 131, 227 and 437 nt. Version 01 – 07 May 2024 (4) - Not applicable, new document.