# Certificate of Analysis
# SALSA® MS-MLPA® Probemix ME034 Multi-locus Imprinting

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| **Catalogue #** | **ME034-025R, ME034-050R, ME034-100R** |
| **Product name** | **Probemix ME034 Multi-locus Imprinting** |
| LOT | **C1-0121** |

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| 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 2026, when stored at recommended conditions. This product should not be frozen/thawed more than 25 times. | |
| Purpose | This product has been developed for the detection of aberrant methylation and/or copy number changes of one or more sequences in 11 different imprinted locations in seven different chromosomal regions, 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 | - 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.<br>- Standard deviation of each individual probe ≤0.10, when tested on 23 different DNA samples of healthy individuals, extracted by various methods.<br>- Each individual probe meets reaction-specific criteria when tested on a single DNA sample under various experimental conditions.<br>- 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.<br>Note: In several no-DNA reactions performed on this ME034-C1 probemix MRC-Holland has observed non-specific peaks at 95, 143 and 203 nt. When insufficient sample DNA is used (as indicated by the Q-fragments) these peaks may also appear in between the probes. Always use at least 50 ng sample DNA in each reaction. Furthermore, we found that the amount and height of these peaks is greatly reduced by not spinning down your MLPA reactions in between the ligation and PCR reaction (mainly for the 143 and 203 nt peaks). The non-specific peaks are not expected to influence results. Please notify us if you still regularly observe these peaks: info@mrcholland.com. | Test result<br>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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|  | MRC Holland bv; Willem Schoutenstraat 1<br>1057 DL, Amsterdam, The Netherlands |
| E-mail | info@mrcholland.com (information & technical questions)<br>order@mrcholland.com (orders) |
| Phone | +31 888 657 200 |

# Certificate of Analysis
## SALSA MS-MLPA Probemix ME034-C1
## Multi-locus Imprinting sample picture

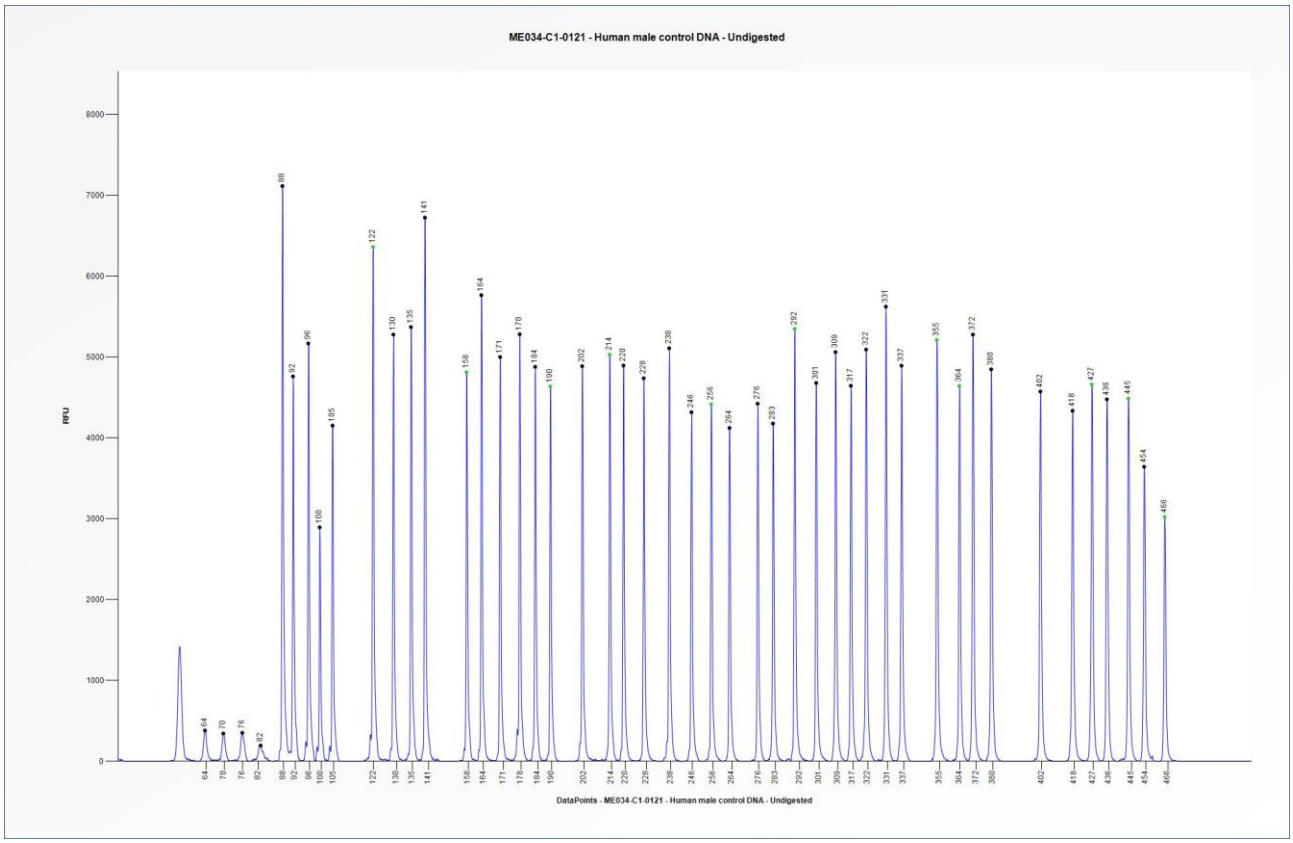


**Figure 1**. Capillary electrophoresis pattern from a sample of approximately 50 ng undigested human male control DNA analysed with SALSA MS-MLPA Probemix ME034 Multi-locus Imprinting (C1-0121) for the quantification of copy numbers.

In several no-DNA reactions performed on this ME034-C1 probemix MRC-Holland has observed non-specific peaks at 95, 143 and 203 nt. When insufficient sample DNA is used (as indicated by the Q-fragments) these peaks may also appear in between the probes. Always use at least 50 ng sample DNA in each reaction. Furthermore, we found that the amount and height of these peaks is greatly reduced by not spinning down your MLPA reactions in between the ligation and PCR reaction (mainly for the 143 and 203 nt peaks). The non-specific peaks are not expected to influence results. Please notify us if you still regularly observe these peaks: info@mrcholland.com.

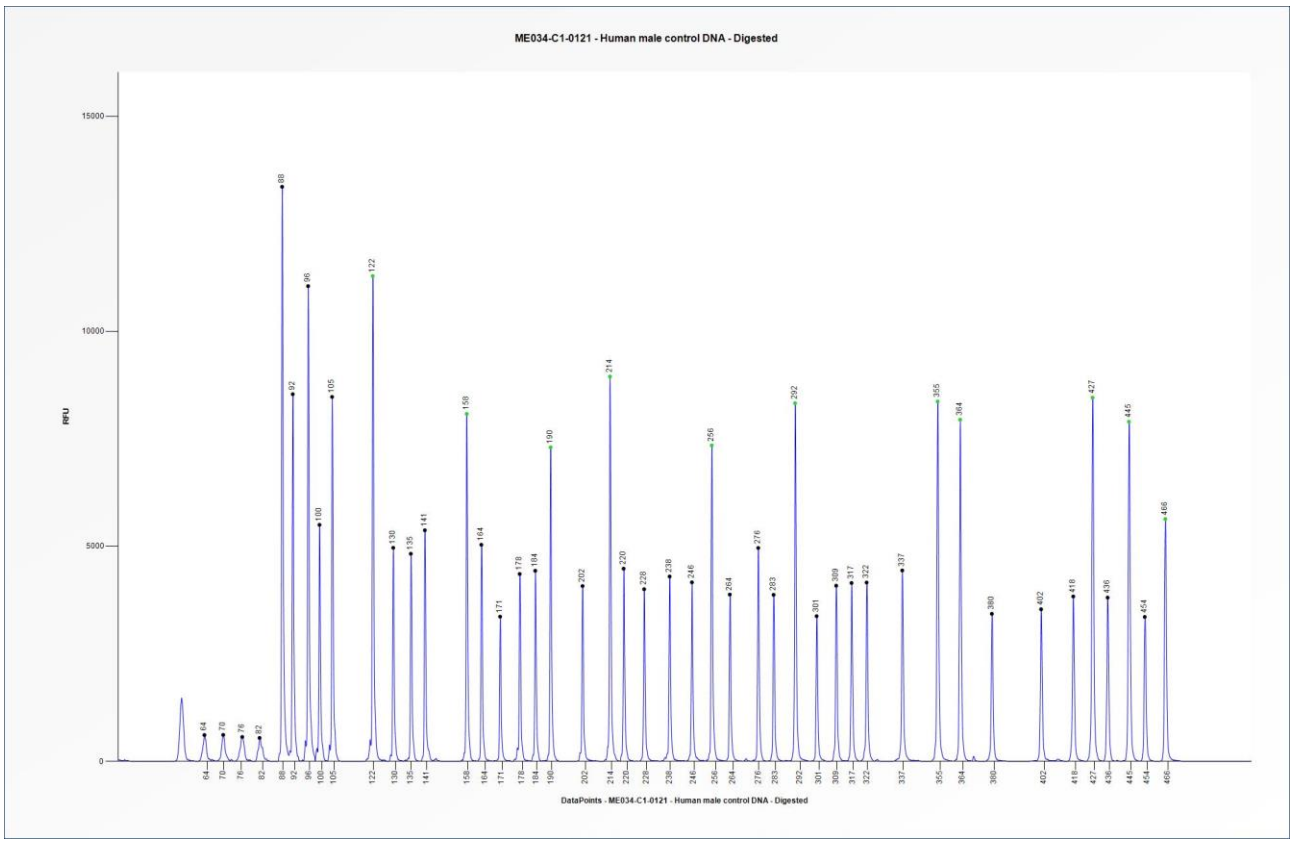


**Figure 2**. Capillary electrophoresis pattern from a sample of approximately 50 ng digested human male control DNA analysed with SALSA MS-MLPA Probemix ME034 Multi-locus Imprinting (C1-0121) to determine the methylation status.

In several no-DNA reactions performed on this ME034-C1 probemix MRC-Holland has observed non-specific peaks at 95, 143 and 203 nt. When insufficient sample DNA is used (as indicated by the Q-fragments) these peaks may also appear in between the probes. Always use at least 50 ng sample DNA in each reaction. Furthermore, we found that the amount and height of these peaks is greatly reduced by not spinning down your MLPA reactions in between the ligation and PCR reaction (mainly for the 143 and 203 nt peaks). The non-specific peaks are not expected to influence results. Please notify us if you still regularly observe these peaks: info@mrcholland.com.

**This lot was certified by MRC Holland on 26 January 2021.**

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** |
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| Version 01– 27 January 2021 (4)<br>- Not applicable, new document. |