MRC-Holland

COA Version C1; Issued 28 November 2019

## Certificate of Analysis SALSA<sup>®</sup> MLPA<sup>®</sup> Probemix P104 Menkes ATP7A

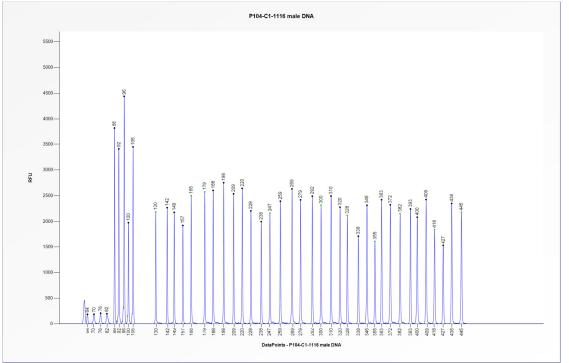
| Catalogue #                       | P104-025R, P104-050R, P104-100R   |                     |
|-----------------------------------|---|---------------------|
| Product name                      | Probemix P104 Menkes ATP7A  |                     |
| LOT                               | C1-1116   |                     |
| Σ                                 | 25, 50, or 100 reactions.   |                     |
| Shipping conditions               | Dry ice or cooling elements.  |                     |
| X                                 | Store upon arrival between -25°C and -15°C.   |                     |
| $\overline{\mathbf{X}}$           | Expiration date: November 2021, when stored at recommended conditions. should not be frozen/thawed more than 25 times.  | This product        |
| Use                               | This product has been developed to determine the DNA copy number of all exons of the human <i>ATP7A</i> gene, 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 and Coffalyser.Net as described in the MLPA General Protocol.  |                     |
| Quality control<br>specifications | <ul> <li>Sufficient distance between peaks, absence of extra or shoulder peaks, and completeness of hybridisation of each individual probe, as tested on Applied Biosystems 3130 and Beckman/SCIEX GeXP sequencers.</li> <li>Standard deviation of each individual probe ≤0.10, when tested on 23 different DNA samples of healthy individuals from the same sex, extracted by various methods.</li> <li>Each individual probe meets reaction-specific criterial when tested on a single DNA sample under various experimental conditions.</li> <li>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 &lt;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.</li> </ul> | 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.

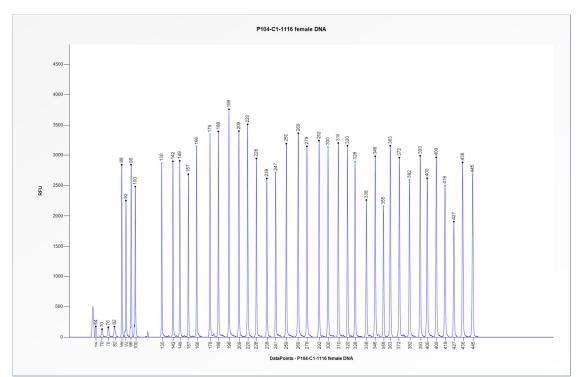
| More information: www.mlpa.com; www.mlpa.eu |  |  |
|---|--|--|
|   | MRC-Holland bv; Willem Schoutenstraat 1<br>1057 DL, Amsterdam, The Netherlands |  |
| E-mail                                      | info@mlpa.com (information & technical questions); order@mlpa.com (orders)     |  |
| Phone                                       | +31 888 657 200  |  |







**Figure 1**. Capillary electrophoresis pattern from a sample of approximately 50 ng human male control DNA analysed with SALSA MLPA Probemix P104 Menkes ATP7A (C1-1116).



**Figure 2**. Capillary electrophoresis pattern from a sample of approximately 50 ng human female control DNA analysed with SALSA MLPA Probemix P104 Menkes ATP7A (C1-1116).



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## **Certificate of Analysis**

## This lot was certified by MRC-Holland on 14 December 2016.

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 – 28 November 2019 (04)* - Not applicable, new document.