




# Certificate of Analysis

## SALSA® MLPA® Probemix P166 KCNQ2

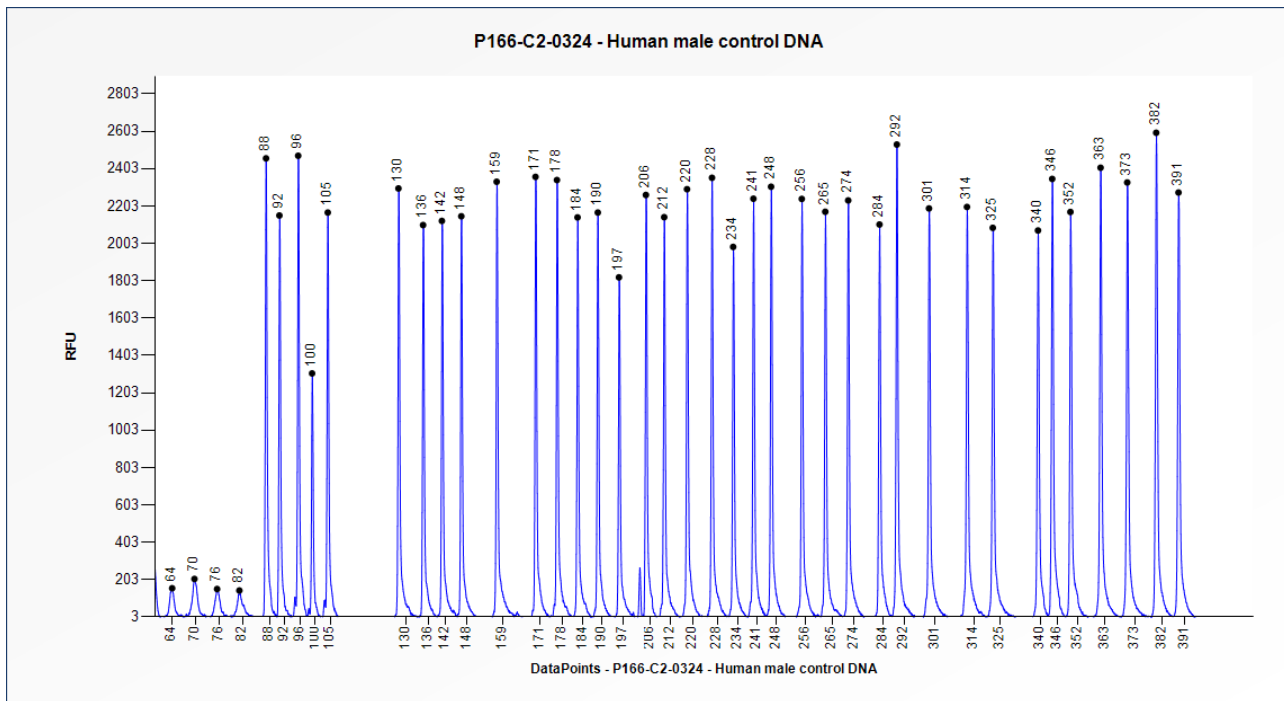
|   |  |             |
|---|--|-------------|
| <b>Catalogue #</b>  | <b>P166-025R, P166-050R, P166-100R</b>   |             |
| <b>Product name</b>   | <b>Probemix P166 KCNQ2</b>   |             |
| <b>LOT</b>  | <b>C2-0324</b>   |             |
|  | 25, 50, or 100 reactions.  |             |
| Shipping conditions   | Dry ice or cooling elements.   |             |
|  | Store upon arrival between -25°C and -15°C.  |             |
|  | Expiration date: March 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 of the human KCNQ2 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 analysis software as described in the MLPA General Protocol.  |             |
| Quality control specifications  | <ul style="list-style-type: none"> <li>- Sufficient distance between peaks, absence of extra or shoulder peaks, and completeness of hybridisation of each individual probe, as tested on Applied Biosystems and Beckman/SCIEX GeXP sequencers.</li> <li>- Standard deviation of each individual probe <math>\leq 0.10</math>, when tested on 23 different DNA samples of healthy individuals, extracted by various methods.</li> <li>- Each individual probe meets reaction-specific criteria 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 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 &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 |
|   |  | 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.

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

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## SALSA MLPA Probemix P166 KCNQ2 sample picture



**Figure 1.** Capillary electrophoresis pattern from a sample of approximately 50 ng human male control DNA analysed with SALSA MLPA Probemix P166 KCNQ2 (C2-0324).

**This lot was certified by MRC Holland on 08 October 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 01 – 09 October 2024 (6)<br>- Not applicable, new document. |