




## Certificate of Analysis

### SALSA® MLPA® Probemix P414 MDS

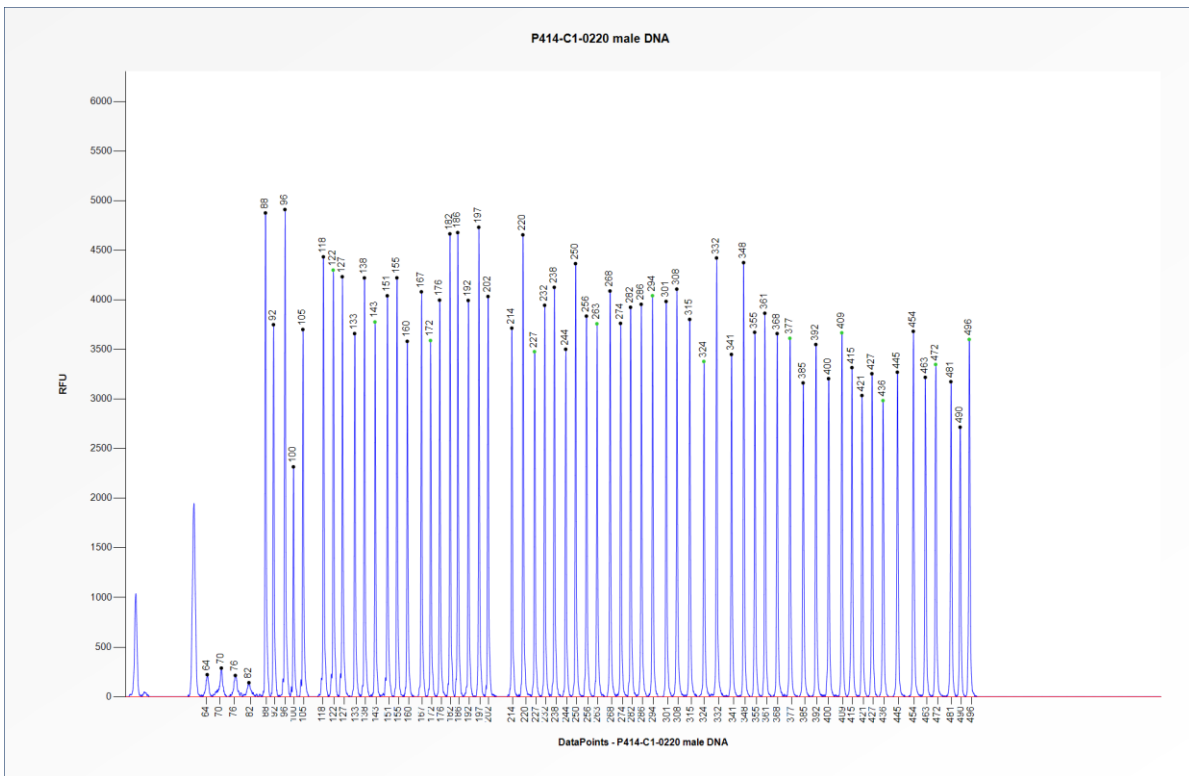
<b>Catalogue #</b>	<b>P414-025R, P414-050R, P414-100R</b>	
<b>Product name</b>	<b>Probemix P414 MDS</b>	
<b>LOT</b>	<b>C1-0220</b>	
	25, 50, or 100 reactions.	
Shipping conditions	Dry ice or cooling elements.	
	Store upon arrival between -25°C and -15°C.	
	Expiration date: February 2025, when stored at recommended conditions. This product should not be frozen/thawed more than 25 times.	
Use	This product has been developed to determine the DNA copy number of the following chromosomal regions: chromosome 3, 5q ( <i>EGR1</i> , <i>MIR145</i> , <i>SPARC</i> , <i>MIR146A</i> ), 7q ( <i>EZH2</i> ), 8q ( <i>MYC</i> ), 11q ( <i>KMT2A</i> ), 12p ( <i>ETV6</i> ), chromosome 17 ( <i>TP53</i> , <i>NF1</i> , <i>SUZ12</i> ), chromosome 19, 20q ( <i>ASXL1</i> ) and Y-chromosome. 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 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 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>	<p>Test result</p> <p style="text-align: center; font-weight: bold;">PASS</p>

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.

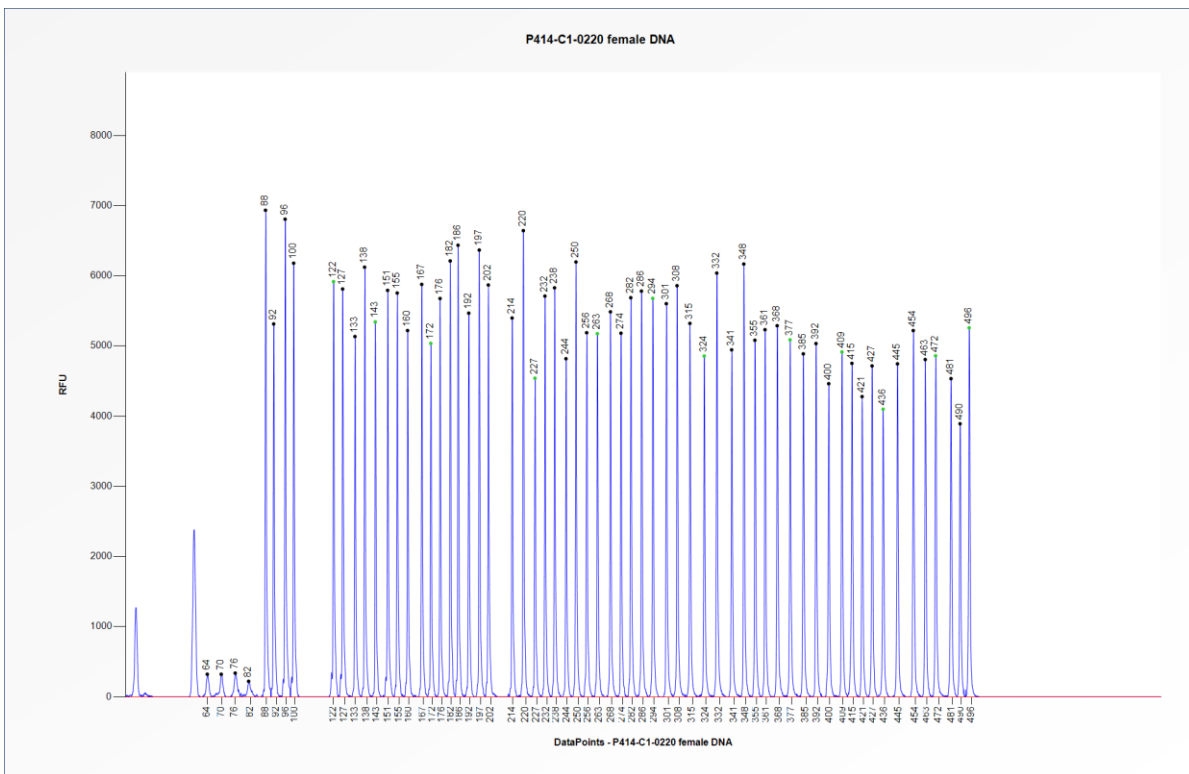
<b>More information:</b> <a href="http://www.mlpa.com">www.mlpa.com</a> ; <a href="http://www.mlpa.eu">www.mlpa.eu</a>	
	MRC-Holland bv; Willem Schoutenstraat 1 1057 DL, Amsterdam, The Netherlands
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### SALSA MLPA Probemix P414-C1 MDS sample picture

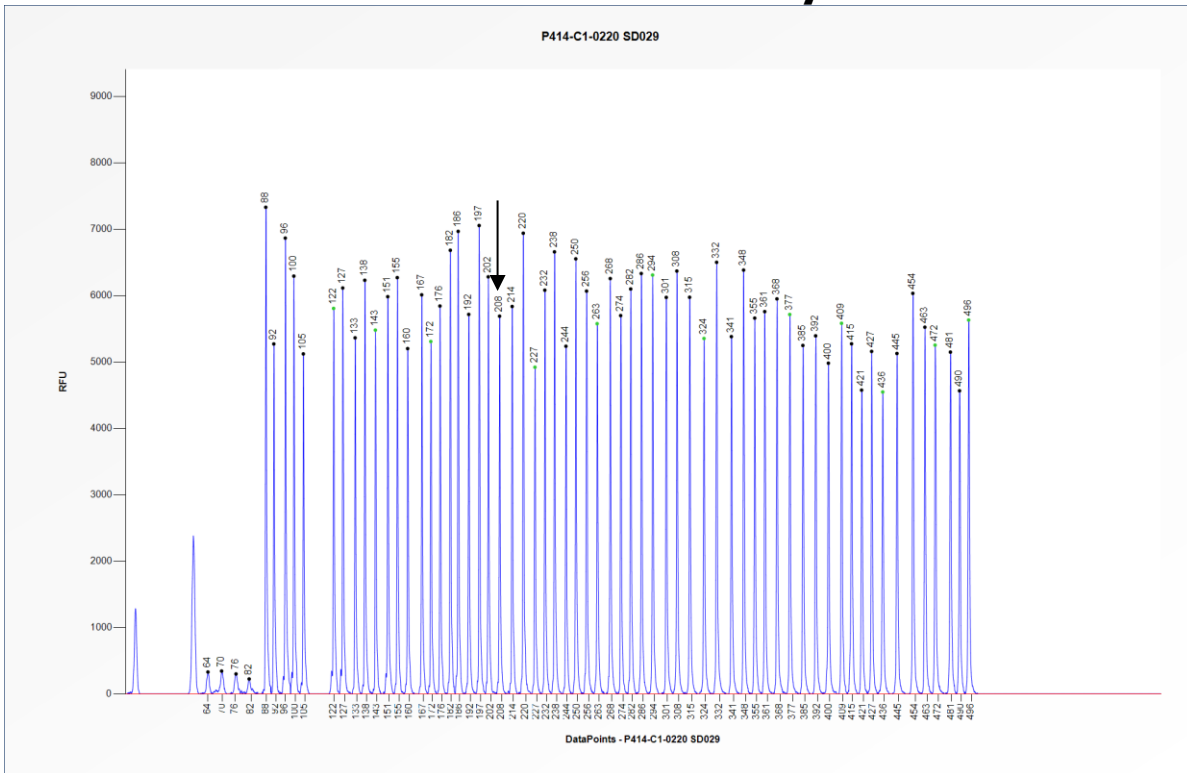


**Figure 1.** Capillary electrophoresis pattern from a sample of approximately 50 ng human male control DNA analysed with SALSA MLPA Probemix P414 MDS (C1-0220).



**Figure 2.** Capillary electrophoresis pattern from a sample of approximately 50 ng human female control DNA analysed with SALSA MLPA Probemix P414 MDS (C1-0220).

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**Figure 3.** Capillary electrophoresis pattern from SALSA Binning DNA SD029-S02 (approximately 50 ng) analysed with SALSA MLPA Probemix P414 MDS (C1-0220). The location of the JAK2 p.V617F (c.1849G>T) mutation-specific probe (05672-L17742) at 208 nt is indicated.

**This lot was certified by MRC-Holland on 14 April 2020.**

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- 14 April 2020 (04)  
- Not applicable, new document.