




## Certificate of Analysis

### SALSA<sup>®</sup> MLPA<sup>®</sup> Probemix P419 CDKN2A/2B-CDK4

<b>Catalogue #</b>	<b>P419-025R, P419-050R, P419-100R</b>	
<b>Product name</b>	<b>Probemix P419 CDKN2A/2B-CDK4</b>	
<b>LOT</b>	<b>B1-1118</b>	
	25, 50, or 100 reactions.	
Shipping conditions	Dry ice or cooling elements.	
	Store upon arrival between -25°C and -15°C.	
	Expiration date: November 2023, 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 all exons of the human <i>CDKN2A</i> , <i>CDKN2B</i> and <i>CDK4</i> genes, as described in tables 1 and 2 of the product description. Moreover, this probemix can be used to determine the presence of the <i>MITF</i> p.E318K (c.952G>A) point mutation and status of <i>CDK4</i> codon 24, as described in tables 1 and 2. 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 3130 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>

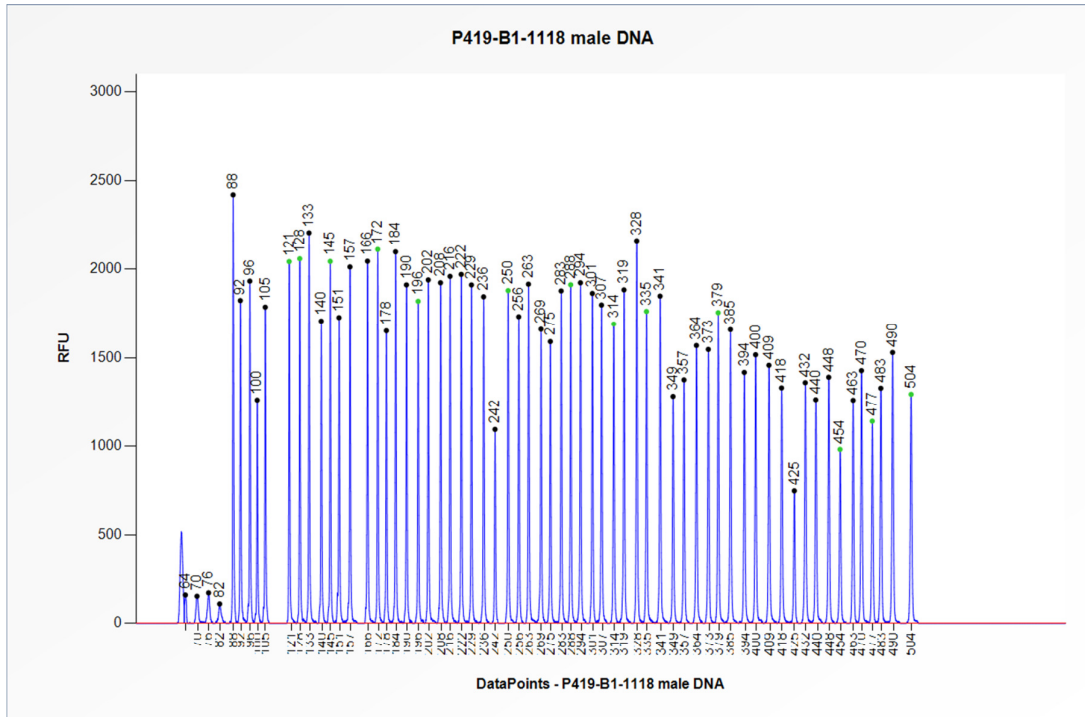
None of the ingredients are derived from humans, animals, or pathogenic bacteria. Based on the concentrations present, none of the ingredients are hazardous as defined by the Hazard Communication Standard. **A Safety Data Sheet (SDS) is not required for these products:** none of the preparations contain 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.

**More information:** [www.mlpa.com](http://www.mlpa.com); [www.mlpa.eu](http://www.mlpa.eu)

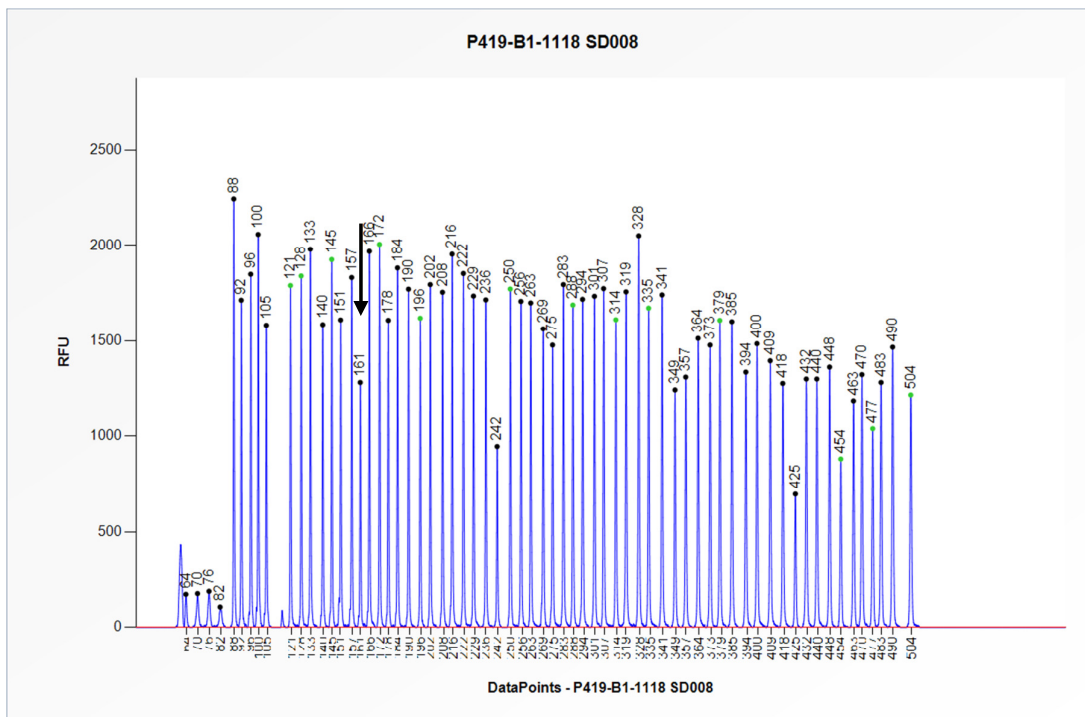
	MRC-Holland bv; Willem Schoutenstraat 1 1057 DL, Amsterdam, The Netherlands
E-mail	<a href="mailto:info@mlpa.com">info@mlpa.com</a> (information & technical questions); <a href="mailto:order@mlpa.com">order@mlpa.com</a> (orders)
Phone	+31 888 657 200

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### SALSA MLPA Probemix P419-B1 CDKN2A/2B-CDK4 sample picture



**Figure 1.** Capillary electrophoresis pattern from a sample of approximately 50 ng human male control DNA analysed with SALSA MLPA Probemix P419 CDKN2A/2B-CDK4 (B1-1118).



**Figure 2.** Capillary electrophoresis pattern from SALSA Binning DNA SD008-S01 (approximately 50 ng) analysed with SALSA MLPA Probemix P419 CDKN2A/2B-CDK4 (B1-1118). The location of the MTF p.E318K (c.952G>A) point mutation specific probe at 161 nt is indicated.

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**This lot was certified by MRC-Holland on 14 December 2018.**

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
<i>Version 01 – 14 December 2018 (04)</i> - Not applicable, new document.