





Certificate of Analysis

SALSA[®] MLPA[®] Probemix P298 BRAF-HRAS-KRAS-NRAS

Catalogue #	P298-025R, P298-050R, P298-100R			
Product name	Probemix P298 BRAF-HRAS-KRAS-NRAS			
LOT	A1-0619			
	25, 50, or 100 reactions.			
Shipping conditions	Dry ice or cooling elements.			
	Store upon arrival between -25°C and -15°C.			
	Expiration date: June 2024, 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 <i>BRAF</i> , <i>HRAS</i> , <i>KRAS</i> and <i>NRAS</i> genes, and to detect the p.V600E (c.1799T>A) mutation in the <i>BRAF</i> gene and the wildtype c.34G and c.35G sequences in the <i>KRAS</i> gene. 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"> - 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. - Standard deviation of each individual probe ≤ 0.10, when tested on 23 different DNA samples of healthy individuals, extracted by various methods. - Each individual probe meets reaction-specific criteria when tested on a single DNA sample under various experimental conditions. - 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 <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. 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Test result</td> </tr> <tr> <td style="text-align: center; height: 100px;">PASS</td> </tr> </table>	Test result	PASS
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.

More information: www.mlpa.com ; www.mlpa.eu	
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Certificate of Analysis
SALSA MLPA Probemix P298-A1 BRAF-HRAS-KRAS-NRAS sample pictures

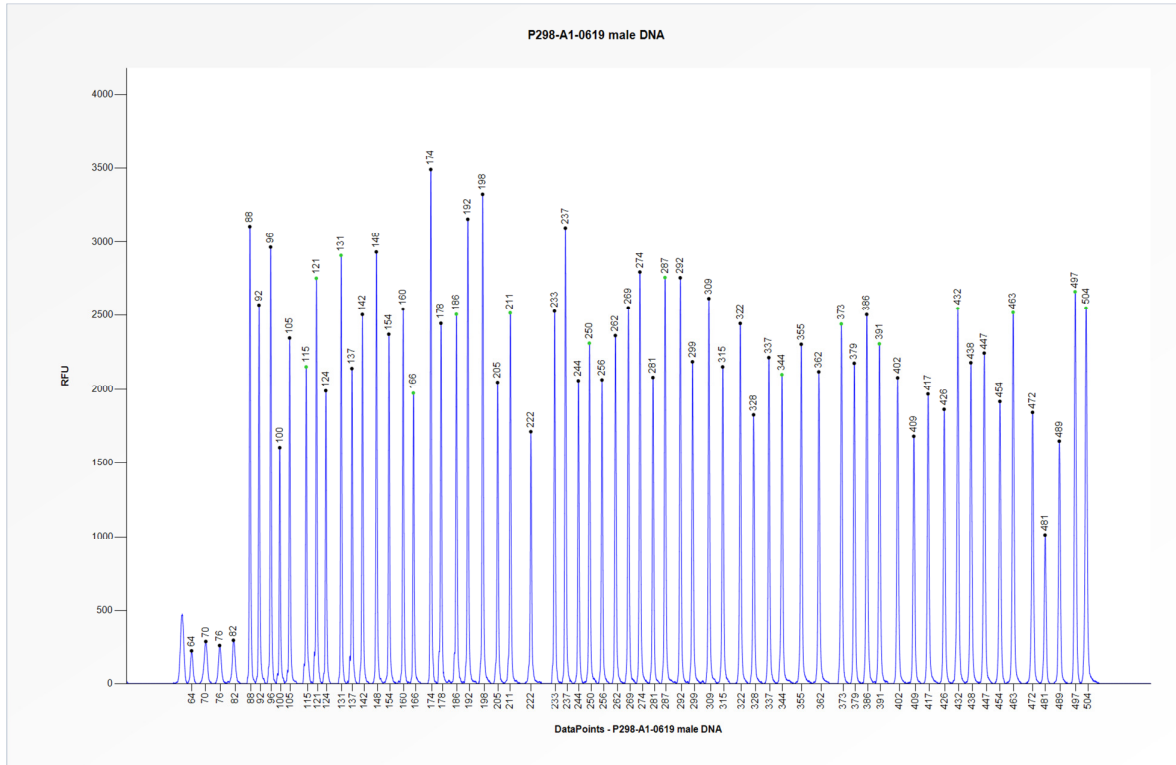


Figure 1. Capillary electrophoresis pattern from a sample of approximately 50 ng human male control DNA analysed with SALSA MLPA Probemix P298 BRAF-HRAS-KRAS-NRAS (A1-0619).

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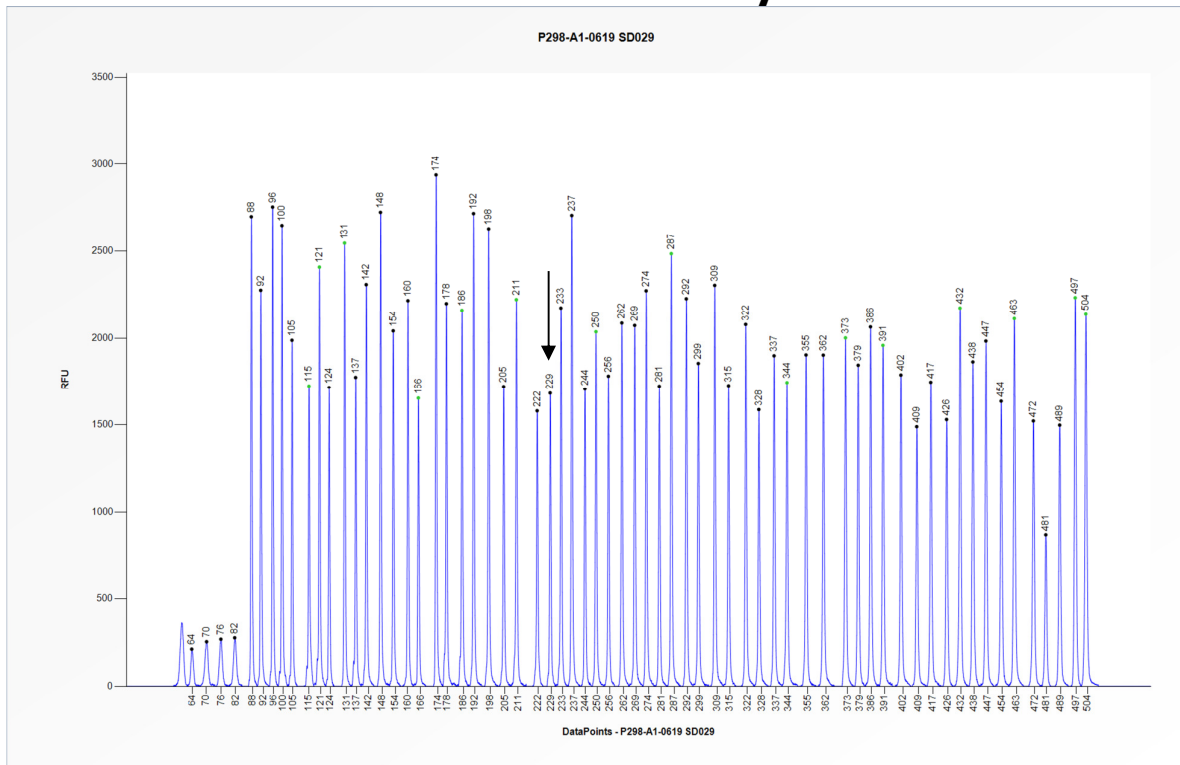


Figure 2. Capillary electrophoresis pattern from SALSA Binning DNA SD029-S02 (approximately 50 ng) analysed with SALSA MLPA Probemix P298 BRAF-HRAS-KRAS-NRAS (A1-0619). The location of the BRAF p.V600E=c.1799T>A specific probe at 229 nt is indicated.

This lot was certified by MRC-Holland on 26 June 2019

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 – 26 June 2019 (04)
- Not applicable, new document.