

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	A2-0323	
Σ	25, 50, or 100 reactions.	
Shipping conditions	Dry ice or cooling elements.	
1	Store upon arrival between -25°C and -15°C.	
	Expiration date: March 2028 when stored at recommended condition should not be frozen/thawed more than 25 times.	ns. This product
Purpose	The SALSA MLPA Probemix P298 BRAF-HRAS-KRAS-NRAS 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, SD029 and Coffalyser.Net analysis software as described in the MLPA General Protocol.	
Quality control specifications	- 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.	Test result
	 Standard deviation of each individual probe ≤0.10, when tested on 23 different DNA samples of healthy individuals, extracted by various methods. 	
	 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 <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. 	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.

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Certificate of Analysis SALSA MLPA Probemix P298-A2-BRAF-HRAS-KRAS-NRAS sample pictures

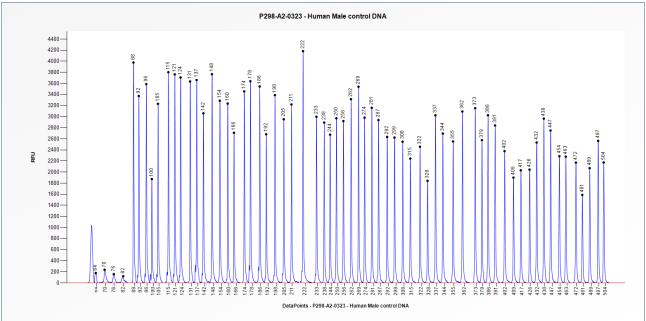


Figure 1. Capillary electrophoresis pattern from a sample of approximately 50 ng human male control DNA analysed with SALSA MLPA Probemix P298 BRAF-HRAS-KRAS-NRAS (A2-0323).

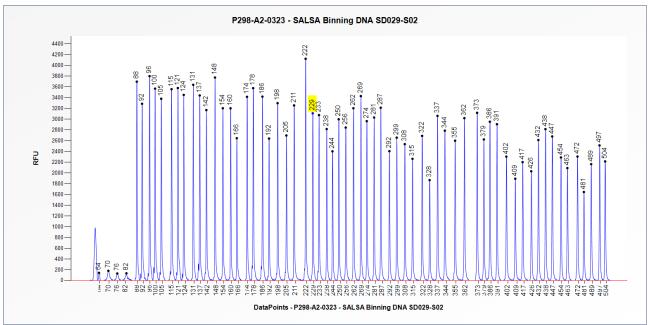


Figure 2. Capillary electrophoresis pattern from SALSA Binning DNA SD029-S02 (approximately 50 ng) analysed with SALSA MLPA Probemix P298 BRAF-HRAS-KRAS-NRAS (A2-0323). The location of the *BRAF* p.V600E (c.1799T>A) mutation-specific probe at 229 nt is indicated.



This lot was certified by MRC Holland on 20 June 2023.

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– 20 June 2023 (6) - Not applicable, new document.