

Certificate of Analysis SALSA® MLPA® Probemix P520 MPN mix 2

Catalogue #	P520-025R, P520-050R, P520-100R	
Product name	Probemix P520 MPN mix 2	
LOT	A2-0520	
Σ	25, 50, or 100 reactions.	
Shipping conditions	Dry ice or cooling elements.	
X	Store upon arrival between -25°C and -15°C.	
	Expiration date: May 2025, when stored at recommended condition should not be frozen/thawed more than 25 times.	ns. This product
Purpose	P520-A2 MPN mix 2 MLPA probemix allows high detection sensitivity (≥1 % allele burden) for the following mutations frequently found in MPN samples: <i>JAK2</i> V617F, <i>JAK2</i> N542-E543del, <i>JAK2</i> E543-D544del, <i>MPL</i> W515L, <i>MPL</i> W515K, <i>KIT</i> D816V, <i>CALR</i> L367fs*46, and <i>CALR</i> K385fs*47, 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, SD057 and Coffalyser.Net analysis software as described in product description of P520-A2 and 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. Standard deviation of each individual probe ≤0.20, 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 (100-400 ng) sample DNA is used. 	Test result PASS
	 Note: We observed in some normal female DNA controls a low peak with length of approximately 105 nt at same length as Y control probe. This unspecific peak is in some cases size called and could hinder the correct determination of the gender in Coffalyser. 	

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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SALSA MLPA Probemix P520-A2 MPN mix 2 sample pictures

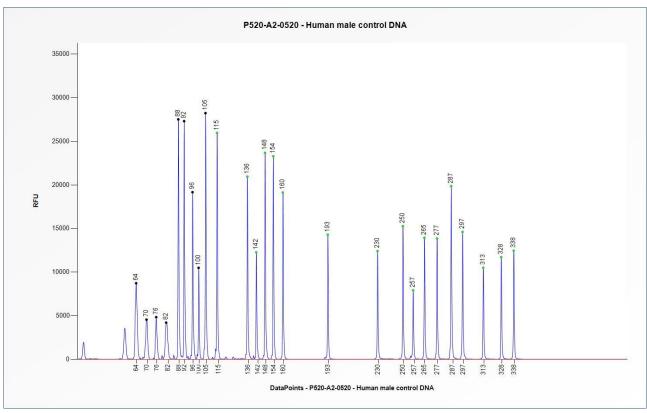


Figure 1. Capillary electrophoresis pattern from a sample of approximately 100 ng human male control DNA analysed with SALSA MLPA Probemix P520 MPN mix 2 (A2-0520).



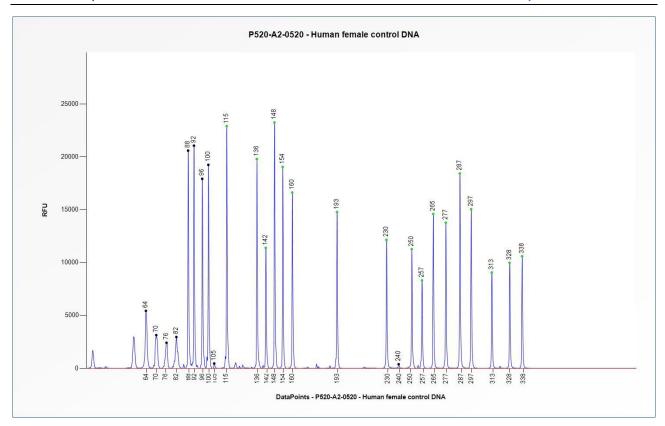


Figure 2. Capillary electrophoresis pattern from a sample of approximately 100 ng human female control DNA analysed with SALSA MLPA Probemix P520 MPN mix 2 (A2-0520). Please note the low level unspecific signal at the 105 nt length.

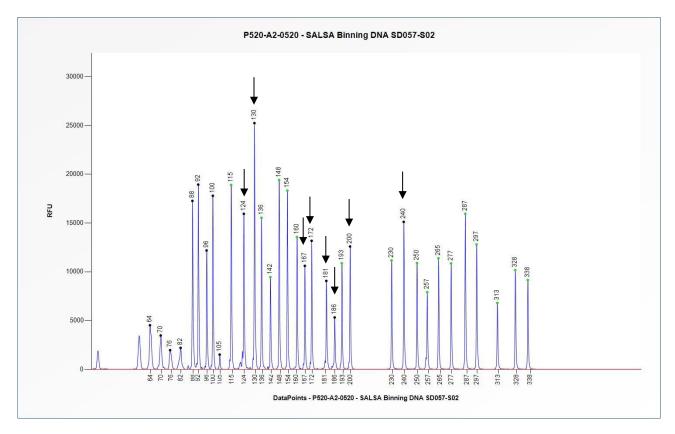


Figure 3. Capillary electrophoresis pattern from SALSA Binning DNA SD057-S02 (approximately 100 ng) analysed with SALSA MLPA Probemix P520 MPN mix 2 (A2-0520). The location of the mutation-specific probes at 124 nt (*CALR* L367fs*46), 130 nt (*CALR* K385fs*47), 167 nt (*JAK2* N542-E543del), 172 nt (*JAK2* E543-D544del), 181 nt (*MPL* W515K), 186 nt (*MPL* W515L), 200 nt (*KIT* D816V) and 240 nt (*JAK2* V617F) is indicated.

This lot was certified by MRC Holland on 8 March 2021.

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.

More information: www.mrcholland.com; www.mrcholland.eu		
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Implemented changes in the COA

Version 01 - 8 March 2021 (6)

- Not applicable, new document.