




Certificate of Analysis

SALSA® MLPA® Probemix P460 SMA

Catalogue #	P460-25R, P460-50R, P460-100R	
Product name	Probemix P460 SMA	
LOT	A1-0418	
	25, 50, or 100 reactions.	
Shipping conditions	Dry ice or cooling elements.	
	Store upon arrival between -25 °C and -15 °C.	
	Expiration date: April 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 exon 7 and exon 8 of the <i>SMN1</i> gene and exon 7 of the <i>SMN2</i> gene. This product also contains two probes for polymorphisms in the <i>SMN1</i> gene, of which carriership can indicate a 'silent carrier'. This probemix is designed for use only in combination with SALSA MLPA reagent kits as described in the MLPA General Protocol.	
Quality Test 1	Sufficient distance between peaks, absence of extra or shoulder peaks, completeness of hybridisation of each individual probe, as tested on Applied Biosystems 3130 and Beckman GeXP sequencers.	PASS
Quality Test 2	Standard deviation of each individual reference probe is <0.10, when tested on 23 different DNA samples of healthy individuals, extracted by various methods.	PASS
Quality Test 3	Standard deviation of each individual probe, tested on a single DNA sample under various experimental conditions, meeting reaction-specific criteria. Conditions tested include: pipetting errors; evaporation; deviating thermocycler temperatures; presence of salts (affecting DNA sample denaturation) or presence of impurities in the DNA sample.	PASS
Quality Test 4	No DNA controls resulted in only 5 major peaks shorter than 121 nucleotides (nt): 4 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 4 Q fragments were not observed. Note: peaks below this 25% threshold are not expected to affect MLPA reactions when sufficient (50-250 ng) sample DNA is used.	PASS

FOR RESEARCH USE ONLY. FOR IN VITRO USE ONLY.

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 P460-A1 SMA sample pictures**

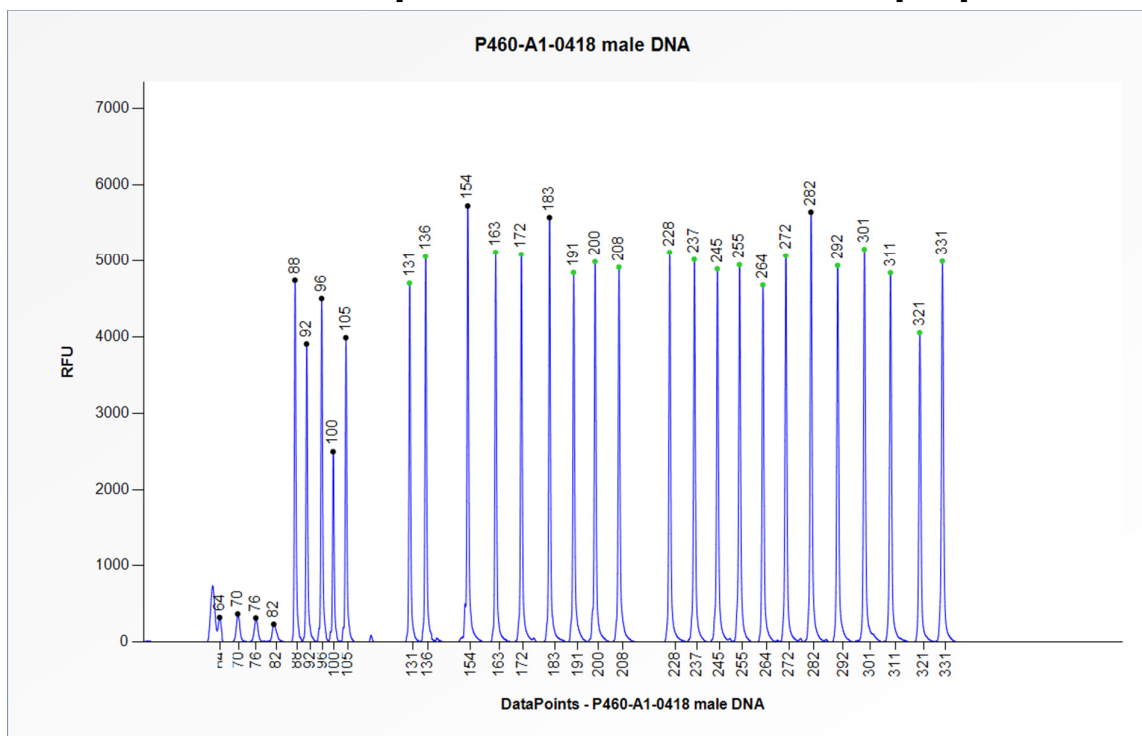


Figure 1. Capillary electrophoresis pattern of a sample of approximately 50 ng human male control DNA analysed with SALSA MLPA probemix P460 SMA (A1-0418).

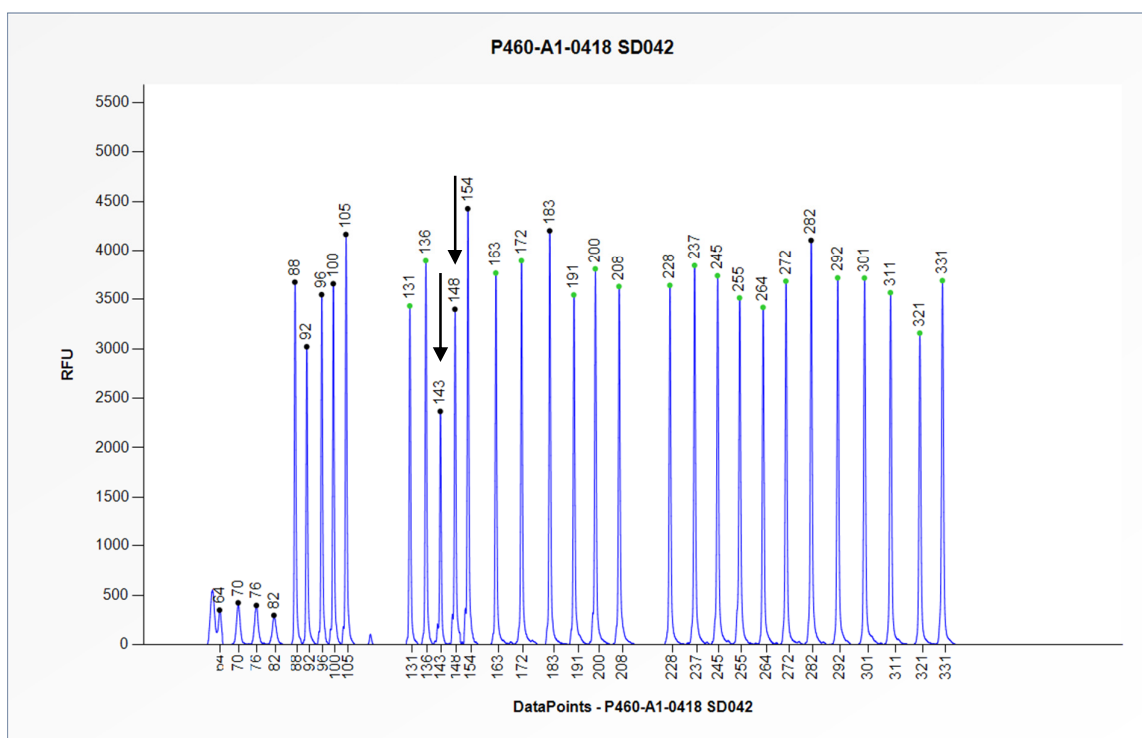


Figure 2. Capillary electrophoresis pattern of SALSA Binning DNA SD042 (approximately 50 ng) analysed with SALSA MLPA probemix P460 SMA (A1-0418). The locations of the g.27134T>G and g.27706-27707delAT specific probes, at 143 nt and 148 nt respectively, are indicated.

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This lot was certified by MRC-Holland on 16 May 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 – 16 May 2018 (03)</i> - Not applicable, new document.