




Certificate of Analysis

SALSA® MLPA® Probemix P043 APC

Catalogue #	P043-025R, P043-050R, P043-100R
Product name	Probemix P043 APC
LOT	E1-0220

	25, 50, or 100 reactions.
Shipping conditions	Dry ice or cooling elements.
	Store upon arrival between -25°C and -15°C.
	Expiration date: February 2025, when stored at recommended conditions. This product should not be frozen/thawed more than 25 times.
Purpose	This product has been developed to detect the DNA copy numbers of the human <i>APC</i> gene, several exons of the human <i>MUTYH</i> gene, the region upstream of the <i>GREM1</i> gene, and the presence of two <i>MUTYH</i> mutations (c.536A>G (p.Tyr179Cys) and c.1187G>A (p.Gly396Asp)), 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 and Coffalyser.Net analysis software 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 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. Note that standard deviation for the mutation specific probes is not determined because they do not generate a signal on DNA from healthy individuals. - 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 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.
	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.mrcholland.com ; www.mrcholland.eu	
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SALSA MLPA Probemix P043-E1 APC sample pictures

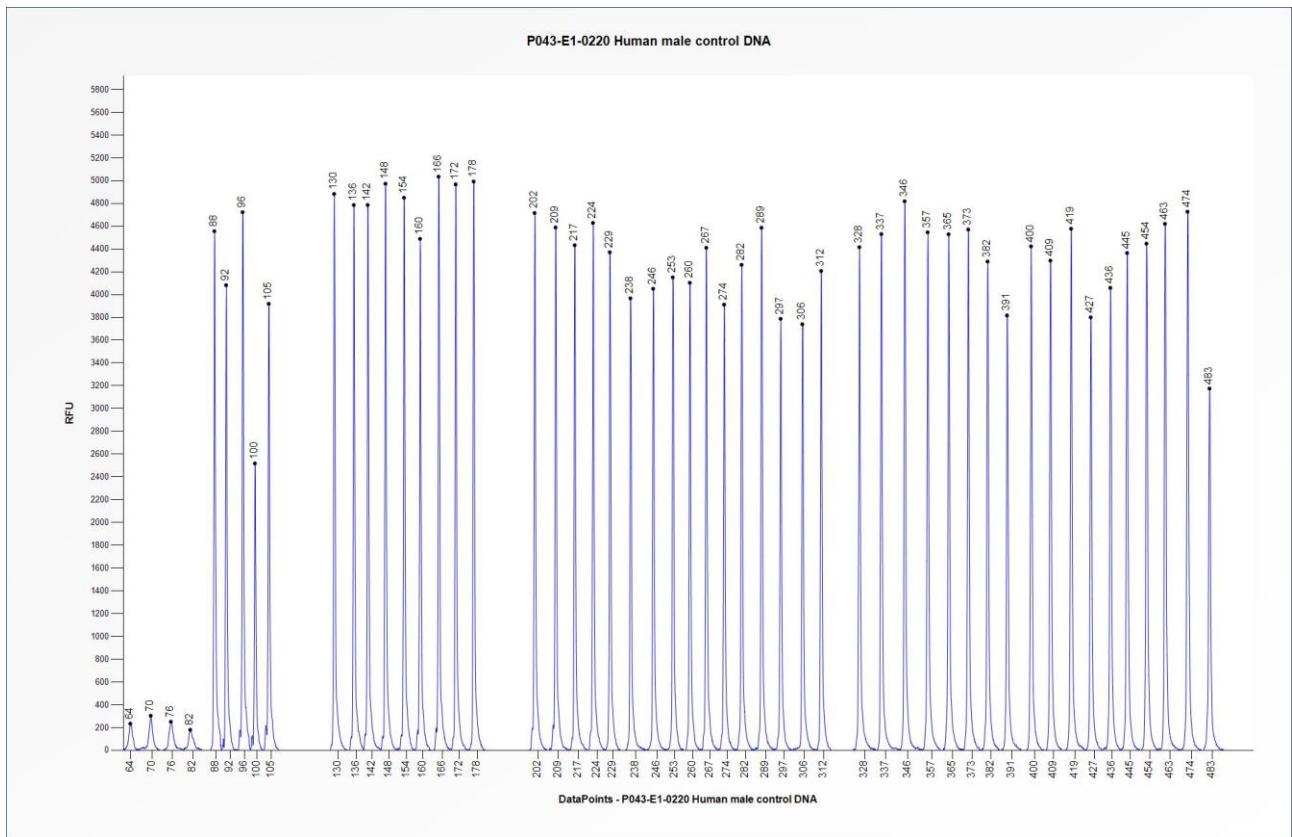


Figure 1. Capillary electrophoresis pattern from a sample of approximately 50 ng human male control DNA analysed with SALSA MLPA Probemix P043 APC (E1-0220).

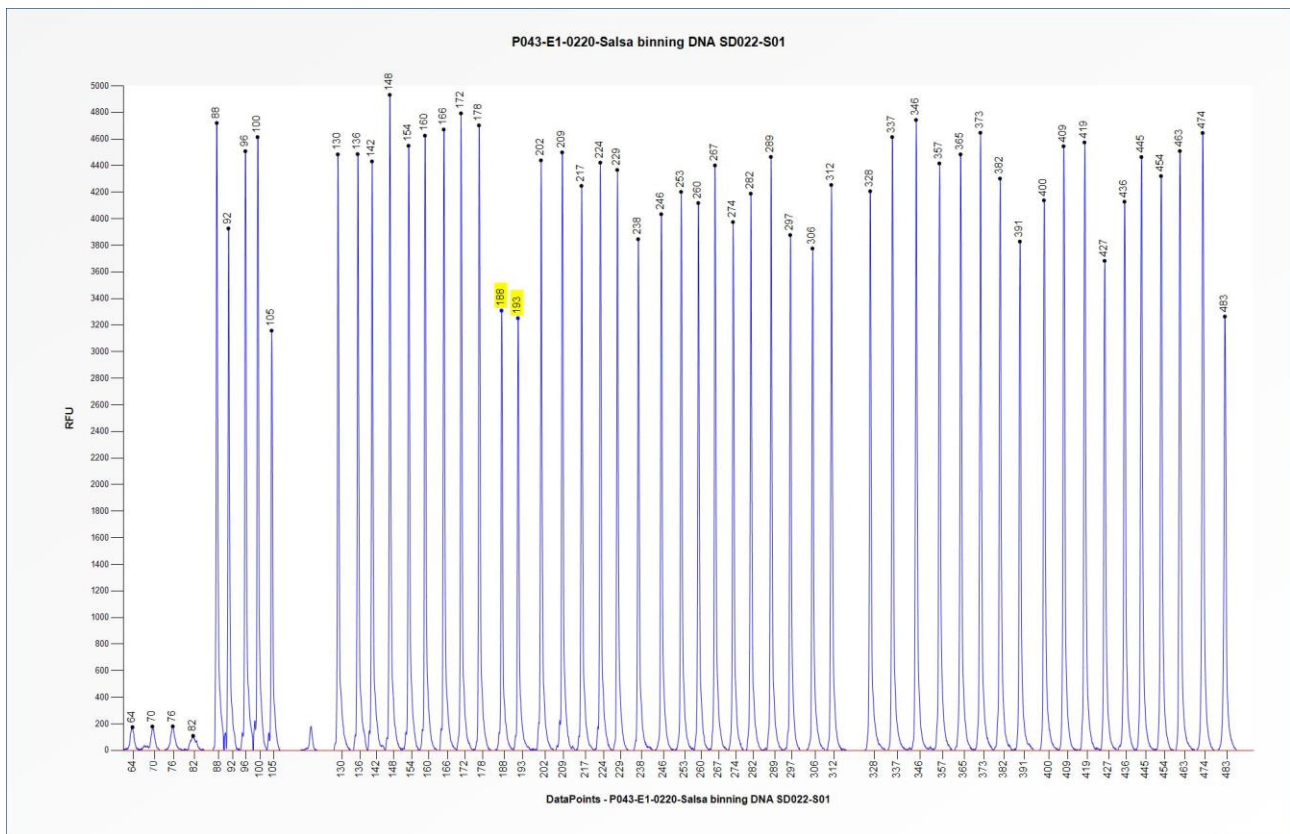


Figure 2. Capillary electrophoresis pattern from SALSA Binning DNA SD022-S01 (approximately 50 ng) analysed with SALSA MLPA Probemix P043 APC (E1-0220). The location of the *MUTYH* c.536A>G (p.Tyr179Cys) and c.1187G>A (p.Gly396Asp) mutation-specific probes at 188 nt and 193 nt, respectively, are indicated.

This lot was certified by MRC Holland on 27 July 2020.

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 03 – 09 December 2025 (06)

- SALSA Binning DNA SD022 removed from section Purpose.

Version 02 – 22 July 2021 (06)

- COA restructured and adapted to a new template.

- Various minor textual or layout changes.

Version 01 – 27 July 2020 (04)

- Not applicable, new document.