





## Certificate of Analysis

### SALSA® MS-MLPA® Probemix ME028 Prader Willi/Angelman

<b>Catalogue #</b>	<b>ME028-25R, ME028-50R, ME028-100R</b>	
<b>Product name</b>	<b>Probemix ME028 Prader Willi/Angelman</b>	
<b>LOT</b>	<b>C1-0118</b>	
	25, 50, or 100 reactions.	
Shipping conditions	Dry ice or cooling elements.	
	Store upon arrival between -25 °C and -15 °C.	
	Expiration date: January 2023, when stored at recommended conditions. This product should not be frozen/thawed more than 25 times.	
Use	This product has been developed for the detection of aberrant methylation of one or more sequences of the 15q11 Prader-Willi Syndrome (PWS) and Angelman Syndrome (AS) region, as described in Table 1 and 2 of the product description. This probemix can also be used to detect deletions/duplications in the aforementioned chromosomal region. This probemix is designed for use only in combination with SALSA MLPA reagent kits as described in the MS-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 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

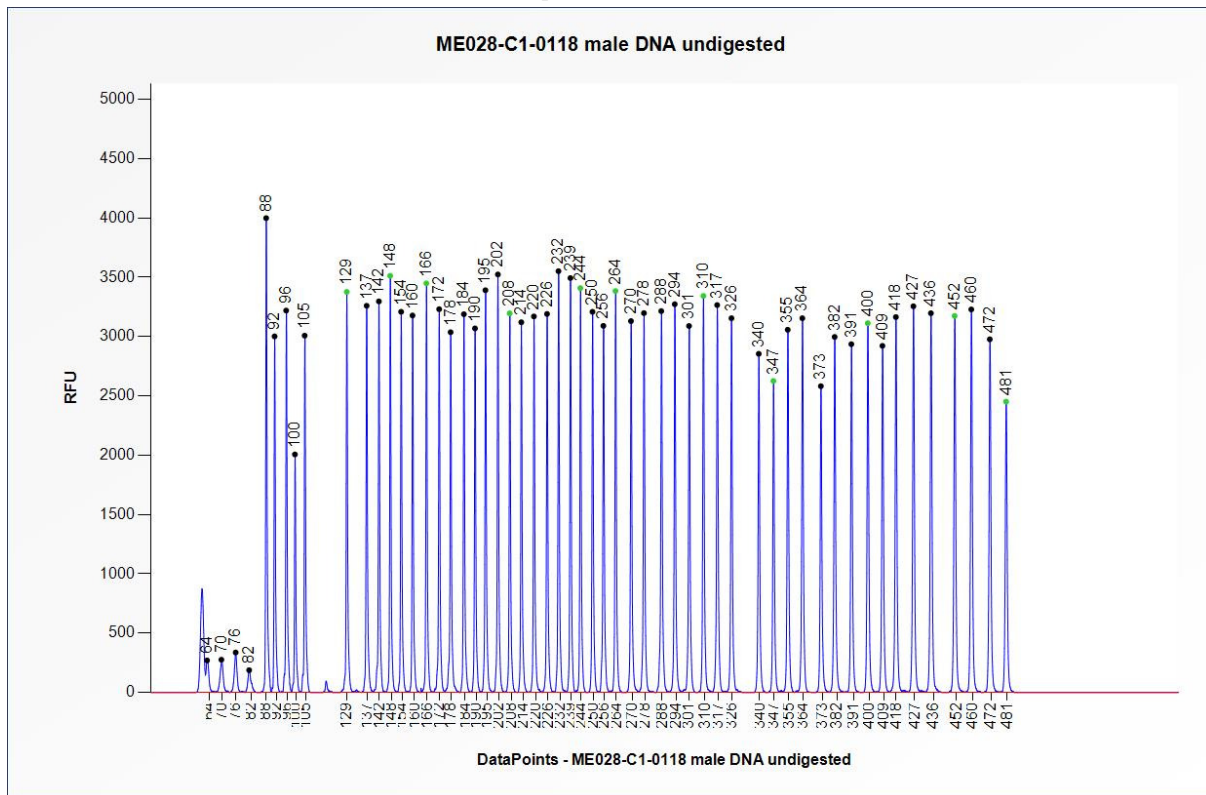
**FOR RESEARCH USE ONLY. FOR IN VITRO USE ONLY.**

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.

<b>More information: <a href="http://www.mlpa.com">www.mlpa.com</a>; <a href="http://www.mlpa.eu">www.mlpa.eu</a></b>	
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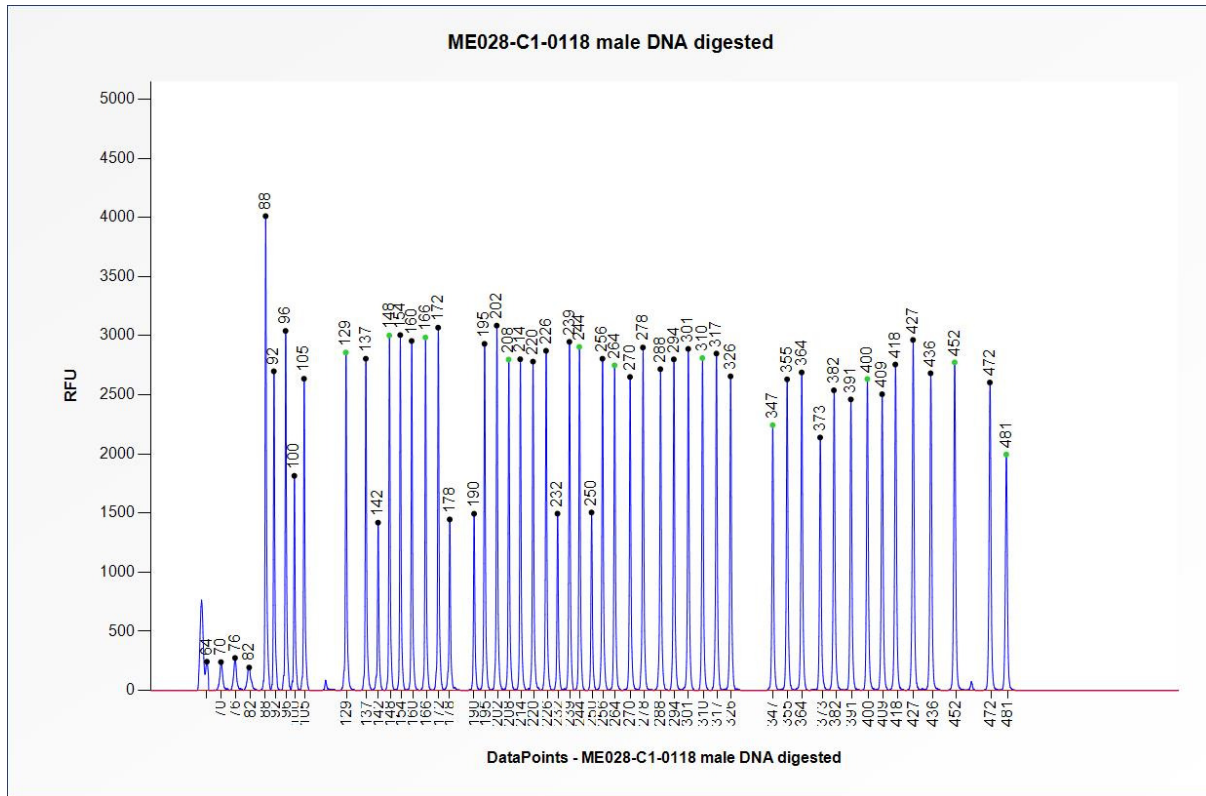
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### SALSA® MLPA® probemix ME028-C1 Prader Willi/Angelman sample pictures



**Figure 1.** Capillary electrophoresis pattern of a sample of approximately 50 ng undigested human male control DNA analysed with SALSA MLPA Probemix ME028-C1 Prader Willi/Angelman (C1-0118) for the quantification of copy numbers. In several No DNA reactions performed on this ME028-C1 probemix, MRC-Holland has observed a series of non-specific peaks with predominant lengths at about 144, 147, 229, 261, 266, 400 and 409 nt. These peaks appeared very sporadically and we have not yet been able to establish the cause. However, we found that the amount and height of these peaks is greatly reduced by not spinning down your MLPA reactions in between the ligation and PCR reaction. The non-specific peaks are not expected to influence results. Please notify us if you still regularly observe these peaks: [info@mlpa.com](mailto:info@mlpa.com).

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**Figure 2.** Capillary electrophoresis pattern of a sample of approximately 50 ng digested human male control DNA analysed with SALSA MLPA Probemix ME028-C1 Prader Willi/Angelman (C1-0118) to determine the methylation status. In several No DNA reactions performed on this ME028-C1 probemix, MRC-Holland has observed a series of non-specific peaks with predominant lengths at about 144, 147, 229, 261, 266, 400 and 409 nt. These peaks appeared very sporadically and we have not yet been able to establish the cause. However, we found that the amount and height of these peaks is greatly reduced by not spinning down your MLPA reactions in between the ligation and PCR reaction. The non-specific peaks are not expected to influence results. Please notify us if you still regularly observe these peaks: [info@mlpa.com](mailto:info@mlpa.com).

**This lot was certified by MRC-Holland on 14 June 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**

*Version 02 – 06 September 2019 (01)*

- Warning added under figure 1 and 2 about not spinning down your MLPA reactions in between the ligation and PCR reaction to reduce non-specific peaks.
- Referral to previous B1-0815 lot removed.

*Version 01 – 14 June 2018 (01)*

- Not applicable, new document.