

Product Description SALSA® Binning DNA SD052-S01

Version S01.

Catalogue number: SD052: SALSA® Binning DNA, 6 reactions

To be used with the following SALSA MLPA probemix: P003-D1 MLH1/MSH2, in combination with a SALSA® MLPA® reagent kit, available for various number of reactions. MLPA reagent kits are either provided with FAM or Cy5.0 dye-labelled PCR primer, suitable for Applied Biosystems and Beckman capillary sequencers, respectively (see www.mlpa.com).

Certificate of Analysis: Information regarding storage conditions, quality tests, and a sample electropherogram from the current sales lot is available at www.mlpa.com.

Precautions and warnings: For professional use only. Always consult the most recent product description AND the corresponding probemix product description AND the MLPA General Protocol or the MS-MLPA General Protocol before use: www.mlpa.com. It is the responsibility of the user to be aware of the latest scientific knowledge of the application before drawing any conclusions from findings generated with this product.

Intended use: This SD052 DNA is a Binning DNA sample for the MLPA probemix version as specified above and in Table 1. See Table 1 and the corresponding probemix product description for more details on inversion-specific probe targets present. Binning and filtering are the processes of linking a signal to its probe identity by use of the probe length.

Please note that this Binning DNA is a mixture of female genomic DNA from healthy individuals and artificial DNA of 50-80 nt length not covering the whole inversion.

Experimental set up: MLPA reactions for binning purposes should be performed with 5 µl of Binning DNA. Inclusion of one reaction with SALSA Binning DNA SD052 in the initial MLPA experiment is essential as it can aid in data binning of the peak pattern using Coffalyser.Net software. Furthermore, Binning DNA should be included in the experiment whenever changes have been applied to the set-up of the capillary electrophoresis device (e.g. when a different polymer type is used).

Data analysis: Coffalyser.Net software must be used for analysis of MLPA experiments. When performing the fragment analysis step in Coffalyser.Net, select SD052 in the *bin smpl*-column. By selecting the SD052 sample as your binning sample, probes will be correctly identified in the peak pattern across all patient samples. Coffalyser.Net software is available free of charge on www.mlpa.com.

Warning: Binning DNA should never be used as a reference sample in the MLPA data analysis. Neither should it be used in quantification of mutation signal(s), as for this purpose true mutation/SNP positive patient samples or cell lines should be used. It is strongly advised to use sample and reference DNA extracted with the same method and derived from the same source of tissue.

Binning DNA content: MRC-Holland is unable to provide inversion positive human DNA samples. As an alternative, we have prepared a mixture of female genomic DNA from healthy individuals and a titrated amount of synthetic DNA that contains the target sequences recognised by the inversion-specific probes present in the MLPA probemix version as specified above and in Table 1.

The synthetic DNA included in the SD052 DNA contains partial sequences of the MSH2 gene. These sequences include a part of the inversion, which will be detected by MLPA probes that are present in the aforementioned probemix version (for details, see Table 1) and will generate an inversion-specific signal for these probes.

Please note that the synthetic DNA contains the target sequences detected by the above mentioned probes and the sequence of the 105 nt chromosome Y specific control fragment. The amount of synthetic DNA in this Binning DNA (relative to the genomic DNA) results in a relative probe signal for the 105 nt probe on this female DNA which is similar to the relative probe signal obtained on male DNA samples. As a result, the 100

and 105 nt control fragments indicate the presence of two copies chromosome X and one copy chromosome Y.

Storage and stability: Upon arrival, Binning DNA must be stored between -25 °C and -15 °C, in the original packaging. When stored under the recommended conditions, a shelf life of at least 1 year is guaranteed, also after opening. The expiry date is mentioned on the label of the vial.

Table 1. Inversion-specific probe targets in SD052-S01 Binning DNA

Probemix	Gene	Probe length	Probe ID	Present in probemix version	Details
P003	MSH2 intron 7	265 nt	20091-SP0917-L28216	D1	10 Mb inversion
	MSH2 intron 7	317 nt	20090-SP0916-L28222	D1	10 Mb inversion

Note: Mutation nomenclature and exon numbering used here may differ from literature! Please notify us of any mistakes: info@mlpa.com. Please consult the respective probemix product description to find corresponding gene transcripts.

More information: www.mlpa.com; www.mlpa.eu

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*EUROPE:



* comprising EU member states, EU member state candidates and members of the European Free Trade Association (EFTA).

OUTSIDE EUROPE:



The product is for RUO in all other countries within Europe

Implemented Changes – compared to the previous SD052 product description versions

Version S01-04 - 22 September 2017 (01)

- New template, including various minor layout changes

Version 03 – 21 March 2016 (12)

- Statement on use for IVD purposes added.
- Minor textual changes.

Version 02 – 4 January 2016 (11)

- Product description adapted to a new lot.
- Information about P003-D1 probemix added in text on page 1 and table 1.
- Information about P003-X2 probemix removed from page 2 and table 1.
- Minor textual changes.

Version 01 (08)

- Not applicable, new document.