Product Description SALSA® Binning DNA SD009-S01

Catalogue number: SD009

Binning DNA SD009: Contains 30 µl Binning DNA, sufficient for 6 MLPA reactions, to be used with the following SALSA MLPA probemix: P038-B1 CLL probemix 2. MLPA reactions for binning purposes should be performed with 5 µl of Binning DNA.

Intended use: This SD009 DNA can be used as Binning DNA sample for the MLPA probemix version as specified above and in Table 1. See Table 1 for more details on mutation-specific probe targets present. Binning and filtering are the processes of linking a signal to its probe identity by use of the probe length. Inclusion of one reaction with SALSA Binning DNA SD009 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 capillaries have been renewed).
The Binning DNA can also be used as an artificial positive control for the specific mutations. 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 exon.
This product is for research use only (RUO).

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

The plasmid included in the SD009 DNA contains partial sequences of the MYD88, NOTCH1 and SF3B1 genes. These sequence(s) include three different mutations which will be detected by MLPA probes that are present in the aforementioned probemix version (for details, see Table 1) and will generate mutation-specific signals for these probes.

Both the MLPA reaction and the analysis of results should be performed according to the instructions described in the MLPA® General Protocol. More detailed information about the probemix and mutation-specific probes can be found in the respective probemix product description.

Coffalyser.Net software must be used for analysis of MLPA experiments. When performing the fragment analysis step in Coffalyser.Net, select the *bin smpl* –column for the SD009 sample. By selecting the SD009 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.

Storage Upon arrival, Binning DNA must be stored between -25 °C and -15 °C. When stored at recommended conditions, this product is stable for at least one year after shipment. The expiry date is mentioned on the label of the vial.

More information: www.mlpa.com; www.mlpa.eu	
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Table 1. Mutation-specific probe targets in SD009-S01 Binning DNA

Product	Gene/Exon	Probe length	Probe ID	Present in product version	Details
P038	SF3B1 exon 16	234 nt	17802-SP0549-L21900	B1	c.2098A>G; p.K700E
	MYD88 exon 5	252 nt	17803-L22642	B1	c.794T>C; p.L265P
	NOTCH1 exon 34	216 nt	17801-SP0548-L22640	B1	c.7541-7542delCT; p.P2514*fs

Note: Notation of mutations 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.

Please note that Binning DNA SD009 consists of female genomic DNA and a plasmid that 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 plasmid 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.

Implemented Changes – compared to the previous SD009 product description versions

Version 02 – 5 October 2016 (14)
- Lot number removed throughout document.
- Explanation on when to include Binning DNA in the experiment adjusted on page 1.
- Information on where to find corresponding gene transcripts added to note at Table 1.
- Minor textual and layout changes.

Version 01 (07)
- Not applicable, new document.