Product Description
SALSA® Binning DNA SD101-S01

Version S01

Catalogue number
- **SD101:** SALSA Binning DNA, 6 reactions

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 before use: www.mrcholland.com. Binning DNA is not known to contain any harmful agents.

Safety data sheet
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.

General information
The SALSA Binning DNA SD101 is a research use only (RUO) reagent to be used in combination with SALSA MLPA probemixes P436-A2 ANO5 and P437-B1 Familial MDS-AML, a SALSA MLPA Reagent Kit and Coffalyser.Net™ analysis software for the processes of linking all probe signals to their identity by use of the probe lengths. SD101 contains the targets of all probes included in the above-listed probemixes, including the mutation-specific probe targets *ANO5* c.191dupA, *GATA2* c.1061C>T and c.1192C>T and *TERT* c.3184G>A.

Binning DNA should never be used as a reference sample in the MLPA data analysis. Neither should it be used in quantification of mutation signals.

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 SD101 in the initial MLPA experiment is essential as it can aid in data binning of the peak pattern when 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 should be used for analysis of MLPA experiments. When performing the fragment analysis step in Coffalyser.Net, select SD101 in the *bin smpl* –column. By selecting the SD101 sample as your binning sample, probes will be correctly identified in the peak pattern across all samples. Coffalyser.Net software is freely downloadable at www.mrcholland.com.

Binning DNA content
SD101 consists of a mixture of female genomic DNA from healthy individuals and a titrated amount of plasmid DNA that contains partial sequences of the *ANO5*, *GATA2* and *TERT* genes. These partial sequences include four different mutations that will be detected by the mutation-specific probes present in the above-listed probemixes. See Table 1 and the corresponding probemix product descriptions for more details on mutation-specific probe targets present. The indicated mutation-specific probes will generate a signal on SD101.

Please note that the plasmid DNA also contains the target sequence of the 105 nt chromosome Y specific control fragment. As a result, the 100 and 105 nt control fragments indicate the presence of two copies of chromosome X and one copy of chromosome Y.

Table 1. Mutation-specific probe targets in Binning DNA SD101-S01

Probemix	Gene/Exon	Probe length (nt)	Probe ID	Probemix version	Details
P436	*ANO5* exon 5	198	18658-SP0690-L24012	A2	c.191dupA
P437	*GATA2* exon 6	168	19052-SP0847-L24939	B1	c.1192C>T; p.R398W
	GATA2 exon 5	190	19053-SP0738-L25512		c.1061C>T; p.T354M
	TERT exon 15	200	19697-SP0859-L30075		c.3184G>A; p.A1062T

Note: Please consult the corresponding probemix product description for more information about exon numbering, mutation nomenclature and gene transcripts used.

More information: www.mrcholland.com; www.mrcholland.eu	
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Implemented changes in the product description
Version S01-01 – 23 April 2026 (03) - Not applicable, new document.