

# Product Description

## SALSA® Hhal

To be used with the MS-MLPA General Protocol.

### Catalogue number

- **SMR50:** 115 µl SALSA Hhal. Sufficient for 200 MS-MLPA reactions or 100 MS-digitalMLPA reactions.

### Certificate of Analysis

Information regarding quality tests from the current sales lot is available at [www.mrcholland.com](http://www.mrcholland.com).

### Intended purpose

SALSA Hhal is an in vitro diagnostic (IVD)\* or research use only (RUO) restriction enzyme reagent to be used in combination with a SALSA® MLPA® Probemix, a SALSA® MLPA® Reagent Kit, and Coffalyser.Net™ analysis software for the detection of methylation changes at select CpG sites targeted by MS-MLPA probes as described in the MS-MLPA General Protocol.

Additionally, SALSA Hhal can be used in combination with a SALSA® digitalMLPA™ Probemix, SALSA® digitalMLPA™ Reagent Kit, SALSA® digitalMLPA™ Barcode Plate, and Coffalyser digitalMLPA™ for the detection of methylation changes at select CpG sites targeted by MS-digitalMLPA probes as described in the MS-digitalMLPA General Protocol.

\* Please note that this reagent is for in vitro diagnostic (IVD) use in the countries specified at the end of this product description. In all other countries, the product is for research use only (RUO).

### Instructions for use

See MS-MLPA General Protocol, available at [www.mrcholland.com](http://www.mrcholland.com).

### Ingredients

SALSA Hhal is a restriction endonuclease enzyme purified from non-hazardous micro-organisms, dissolved in a buffer with non-toxic anti-oxidant, glycerol and undisclosed ingredients.

### Precautions and warnings

For professional use only. Always consult the most recent product description AND the MS-MLPA General Protocol before use, available at [www.mrcholland.com](http://www.mrcholland.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. Hhal is not known to contain any harmful agents.

### Storage and shelf life

The SALSA® Hhal must be stored at -15°C to -25°C shielded from light and in the original packaging directly upon arrival. A shelf life until the expiry date is guaranteed, when stored in the original packaging under recommended conditions. For the exact expiry date, see the label on the vial. Do not use the product if the packaging is damaged or opened. Leave chemicals in original containers. Waste material must be disposed of in accordance with the national and local regulations.

### Safety data sheet

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 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:</b> <a href="http://www.mrcholland.com">www.mrcholland.com</a> ; <a href="http://www.mrcholland.eu">www.mrcholland.eu</a>	
	MRC Holland bv; Willem Schoutenstraat 1 1057 DL, Amsterdam, The Netherlands
E-mail	<a href="mailto:info@mrcholland.com">info@mrcholland.com</a> (information & technical questions) <a href="mailto:order@mrcholland.com">order@mrcholland.com</a> (orders)
Phone	+31 888 657 200

<b>IVD</b>	EUROPE* COLOMBIA 
<b>RUO</b>	ALL OTHER COUNTRIES

\*comprising EU (candidate) member states, members of the European Free Trade Association (EFTA), and the UK. The product is for RUO in all other European countries.

Implemented changes in the product description
<p><i>Version 3 – 11 January 2024</i></p> <ul style="list-style-type: none"> <li>- Product is now registered for IVD use in Colombia.</li> <li>- Included a reference to the Hhal Certificate of Analysis.</li> <li>- Included safety data sheet section.</li> <li>- Updated storage and shelf life section.</li> <li>- Changed the order of the sections.</li> <li>- Minor textual and layout changes.</li> </ul> <p><i>Version 2 – 15 January 2021</i></p> <ul style="list-style-type: none"> <li>- Catalogue number changed from SMR51 to SMR50.</li> <li>- Increase in dispensed volume.</li> <li>- Intended purpose updated.</li> <li>- SALSA Hhal is now CE marked.</li> <li>- Precautions and warnings section added.</li> <li>- Removed text from Storage conditions section: <i>“Enzyme must be shielded from light and should not be exposed to more than 25 freeze-thaw cycles”</i>. Hhal does not need to be shielded from light and will not freeze at recommended conditions due to the presence of glycerol.</li> <li>- Safety data sheet section removed.</li> </ul> <p>Product description had been previously discontinued as all pertinent information can also be found in the MS-MLPA General Protocol.</p>