

**Scharlab S.L.**

Gato Pérez, 33. Pol. Ind. Mas d'en Cisa

08181 Sentmenat

☎ +34937456400

✉ helpdesk@scharlab.com

CERTIFICATE OF ANALYSIS

Product Glycerol, 99,5%, reagent grade, ACS, Reag. Ph Eur

Batch 19148402

GL0026

Quality release date 09/08/2018

Expiry date 08/2023

Analysis	Batch value	Specifications
Assay (G.C.)	99,9 %	≥ 99,5
Identity (IR-Spectrum)	passes test	passes test
Density (20°/4°)	1,2605 g/mL	1,256 - 1,261
Colour (Hazen)	1	≤ 10
Acidity	passes test	passes test
Acrolein, glucose and ammonium compounds	passes test	passes test
Aldehydes	< 0,001 %	≤ 0,001
Halogen compounds (as Cl)	< 0,003 %	≤ 0,003
Chlorides (Cl)	< 0,0005 %	≤ 0,0005
Sulfates (SO ₄)	< 0,001 %	≤ 0,001
Aluminium (Al)	< 0,00005 %	≤ 0,00005
Arsenic (As)	< 0,00005 %	≤ 0,00005
Barium (Ba)	< 0,00001 %	≤ 0,00001
Boron (B)	< 0,000002 %	≤ 0,000002
Cadmium (Cd)	< 0,000005 %	≤ 0,000005
Calcium (Ca)	< 0,0001 %	≤ 0,0001
Chromium (Cr)	< 0,000002 %	≤ 0,000002
Cobalt (Co)	< 0,000005 %	≤ 0,000005
Copper (Cu)	< 0,000005 %	≤ 0,000005
Heavy metals (as Pb)	< 0,0002 %	≤ 0,0002
Iron (Fe)	< 0,00001 %	≤ 0,00001
Lead (Pb)	< 0,00001 %	≤ 0,00001
Magnesium (Mg)	< 0,0001 %	≤ 0,0001
Manganese (Mn)	< 0,00001 %	≤ 0,00001
Nickel (Ni)	< 0,000002 %	≤ 0,000002
Tin (Sn)	< 0,00001 %	≤ 0,00001
Zinc (Zn)	< 0,00001 %	≤ 0,00001
Fatty acid esters (as butyric acid)	< 0,05 %	≤ 0,05
Sugars	passes test	passes test
Glycerolaldehyde	passes test	passes test
Substances darkened by H ₂ SO ₄	passes test	passes test
Residue on ignition	< 0,005 %	≤ 0,005
Water (K.F.)	0,038 %	≤ 0,5