

**Scharlab S.L.**

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CERTIFICATE OF ANALYSIS**TR0423_23784902/1**Product Tris-(hydroxymethyl)-aminomethane, buffer subs., for analysis,
ExpertQ®, ACS, Reag. Ph Eur

Batch 23784902

Quality release date 03/05/2023

TR0423

Expiry date 05/2028

Analysis	Batch value	Specifications
Assay (Acidimetric, on dried sample)	99,81 %	99,8 - 100,1
Assay (Acidimetric, referred to dried sample)	99,53 %	99,0 - 100,5
Identification	passes test	passes test
Appearance of solution	clear	clear
Insoluble in water	< 0,0030 %	≤ 0,003
pH (5 %, H ₂ O)	10,72	10,3 - 10,9
Chlorides (Cl)	< 0,0001 %	≤ 0,0005
Sulfates (SO ₄)	< 0,0005 %	≤ 0,0005
Arsenic (As)	< 0,1 ppm	≤ 0,2
Cadmium (Cd)	< 0,09 ppm	≤ 0,1
Calcium (Ca)	< 0,60 ppm	≤ 1
Copper (Cu)	< 0,09 ppm	≤ 0,1
Heavy metals (as Pb)	< 2 ppm	≤ 5
Iron (Fe)	< 0,92 ppm	≤ 5
Lead (Pb)	< 0,09 ppm	≤ 0,1
Magnesium (Mg)	< 0,29 ppm	≤ 0,3
Potassium (K)	< 0,09 ppm	≤ 0,3
Sodium (Na)	0,50 ppm	≤ 1
Zinc (Zn)	< 0,09 ppm	≤ 0,1
Related substances (TLC)	passes test	passes test
Loss on drying (105 °C)	0,08 %	≤ 0,5
Residue on ignition	0,03 %	≤ 0,1
Water (K.F.)	0,18 %	≤ 0,5
Absorbance (40%, 1 cm, H ₂ O) at wavelegth: 290 nm	0,030 AU	≤ 0,20

For laboratory use only

Results marked with # are out of specifications.
This certificate does not exempt the user from checking the results upon receipt of the goods.
Any copy of our CoA may be obtained from our website at www.scharlab.com

Marta Martinez Casals
Laboratory Technician