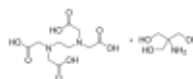


Certificate of Analysis

Product Name:

Tris-EDTA buffer solution - BioUltra, for molecular biology, pH 8.0

Product Number: 93283
Batch Number: BCCL4798
Brand: SIAL
Quality Release Date: 23 FEB 2024
Recommended Retest Date: JAN 2030



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Refractive index at 20 °C	1.331 - 1.335	1.333
Metal Trace Analysis (ICP)	Corresponds to Requirements	Pass
Aluminum (Al)	≤ 1 mg/kg	< 1 mg/kg
Barium (Ba)	≤ 1 mg/kg	< 1 mg/kg
Bismuth (Bi)	≤ 1 mg/kg	< 1 mg/kg
Calcium (Ca)	≤ 5 mg/kg	< 5 mg/kg
Cadmium (Cd)	≤ 1 mg/kg	< 1 mg/kg
Cobalt (Co)	≤ 1 mg/kg	< 1 mg/kg
Chromium (Cr)	≤ 1 mg/kg	< 1 mg/kg
Copper (Cu)	≤ 1 mg/kg	< 1 mg/kg
Iron (Fe)	≤ 1 mg/kg	< 1 mg/kg
Potassium (K)	≤ 20 mg/kg	< 20 mg/kg
Lithium (Li)	≤ 1 mg/kg	< 1 mg/kg
Magnesium (Mg)	≤ 1 mg/kg	< 1 mg/kg
Manganese (Mn)	≤ 1 mg/kg	< 1 mg/kg
Molybdenum (Mo)	≤ 1 mg/kg	< 1 mg/kg
Nickel (Ni)	≤ 1 mg/kg	< 1 mg/kg
Lead (Pb)	≤ 1 mg/kg	< 1 mg/kg
Strontium (Sr)	≤ 1 mg/kg	< 1 mg/kg
Zinc (Zn)	≤ 1 mg/kg	< 1 mg/kg
Extraneous Activities	None Detected	None Detected
Dnases, Rnases, Proteases, Phosphatases		
PH of Solution (PH)	7.8 - 8.2	7.9
Neat, 25 C		

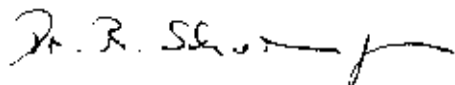
Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate of Analysis

Product Number: 93283
Batch Number: BCCL4798

Test	Specification	Result
Filtered (No Residue on Filter Test)	No Residue	No Residue
UV Absorbance 260nm	≤ 0.04	0.01
UV Absorbance 280nm	≤ 0.01	0.00



Dr. Reinhold Schwenninger
Quality Assurance
Buchs, Switzerland CH

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

