

EDTA dipotassium salt dihydrate *BioChemica*

Ethylenediaminetetraacetic acid dipotassium salt dihydrate,

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Product No. A4220

Description

EDTA is a chelator of calcium, magnesium and zinc ions and therefore may inhibit metallo proteases. It complexes the zinc ion of the active center of the metallo proteases, but in addition it also may influence other biological processes depending on metal ions. The effective concentration in such applications is approx. 1 mM.

Stock solutions are prepared in water (0.5 M EDTA, pH 8.0 or 8.5). At room temperature EDTA dipotassium salt dihydrate dissolves only slowly in water. The solubility of EDTA salts is improved at higher pH values. In order to accelerate dissolving of the product adjust the pH value to approx. 8.0 with a solution of KOH. Dispense into aliquots and sterilize by autoclaving. Solutions of EDTA are stable for several months.

Formula : $C_{10}H_{14}K_2N_2O_8 \cdot 2H_2O$
M: 404.47 g/mol

Specification:

Assay (titr.)	min. 98 %
pH (5 %; H ₂ O)	4.0 - 6.0 (25°C)
Heavy metals (as Pb)	max. 0.005 %
Insoluble matter	max. 0.01 %
Chloride	max. 0.005 %
Sulfate	max. 0.005 %
Ca	max. 0.001 %
Fe	max. 0.001 %
Na	max. 0.1 %
Pb	max. 0.001 %