



Product Specifications

EDTA (ethylenediaminetetracetic acid, disodium salt)

<u>Catalog #</u>	<u>Size</u>
IB70180	100gm
IB70182	500gm

Physical Specifications

CAS#	6381-92-6
Formula Weight	372.24
Molecular Formula	$C_{10}H_{14}N_2O_8Na_2 \cdot 2H_2O$
Purity	Min. 99.0%
Insolubles	Max. 0.005%
Heavy Metals	<0.005%
A ₂₈₀₋₆₀₀ (0.5M, water)	Max. 0.10

Molecular Biology Specifications

DNase assay	None Detected
RNase assay	None Detected
Protease assay	None Detected

Recommended Use

EDTA is commonly used in biological and electrophoresis buffer systems. Located in the table below are some of the commonly used electrophoresis buffers and their recipe as a concentrated stock.

<u>Buffer</u>		<u>Concentrated stock solution (per liter)</u>
Tris-acetate (TAE buffer)	50X:	242gm Tris base 57.1ml glacial acetic acid 100ml 0.5M EDTA (pH 8.0)
Tris-borate (TBE buffer)	5X:	54gm Tris base 27.5gm boric acid 20 mL 0.5M EDTA (pH 8.0)
Tris-phosphate (TPE buffer)	10X:	108gm Tris base 15.5 mL 85% phosphoric acid (1.679g/ml) 40ml 0.5M EDTA (pH 8.0)

Sambrooks, J., Fritsch, E.F., Manlatis, T (1989) Molecular Cloning A Laboratory Manual vol. 3 8.23

Storage

Store at room temperature. Protect from moisture.

Warning

Irritant. Causes irritation to eyes, skin and mucous membranes. Avoid breathing dust. Do not take internally. Wash thoroughly after handling. See Material Safety Data Sheet for additional information.