

Product Specifications

EDTA SOLUTION 0.5M

 Catalog #
 Size

 IB70184
 100ml

 IB70185
 (4) 100ml

Physical Specifications

CAS# 6381-92-6

Molecular Formula $C_{10}H_{14}N_2O_8Na_2$ $^{\circ}2H_2O$

 $\begin{array}{lll} \mbox{Purity (EDTA component; dry basis)} & >99.0\% \\ \mbox{Insolubles} & <0.01\% \\ \mbox{Heavy Metals} & <0.005\% \\ \mbox{A_{280^-600} (0.5M, water)} & <0.10\% \end{array}$

A 0.5M aqueous solution of a Molecular Biology Certified Grade EDTA pH adjusted to 8.0

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.

Buffer		Concentrated stock solution (per liter)
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.