

Product Specifications



SCIENTIFIC

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0.5M EDTA SOLUTION

Product Number

IB70184	100ml
IB70185	4x100ml
IB70187	10L

Size

CAS NO.

CAS# 6381-92-6

PHYSICAL SPECIFICATIONS

Molecular Formula	$C_{10}H_{14}N_2O_8Na_2 \cdot 2H_2O$
Purity (EDTA, dry basis)	> 99.0%
Insolubles	< 0.01%
Heavy Metals	< 0.005%
$A_{280-600}$ (0.5M, water)	< 0.10%
DNase assay	None Detected
RNase assay	None Detected
Protease assay	None Detected
A 0.5M aqueous solution of Molecular Biology Grade EDTA, pH adjusted to 8.0.	

STORAGE

Store at room temperature. Protect from moisture.

WARNING

Classification: Skin Corrosion/Irritant - 1
Serious Eye Damage/Eye Irritant - 1

Hazard Statements: H314-Causes severe skin burns and eye damage.

Precautionary Statements: P260-Do not breathe dusts or mists • P264-Wash face, hands, and any exposed skin thoroughly after handling • P280-Wear protective gloves/protective clothing/eye protection/face protection • P310-Immediately call a POISON CENTER or doctor • P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting • P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower/wash contaminated clothing before reuse • P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing • P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing • P405-Store locked up • P501-Dispose of contents/container to an approved waste disposal plant.



DANGER!

RECOMMENDED USE

IBI's 0.5M EDTA Solution 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 L)
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 20ml 0.5M EDTA (pH 8.0)
Tris-phosphate (TPE buffer) 10X:	108gm Tris base 15.5ml 85% phosphoric acid (1.679g/ml) 40ml 0.5M EDTA (pH 8.0)

FOR RESEARCH AND DEVELOPMENT PURPOSES ONLY

Building Quality Scientific.