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Datasheet for MB-019

10X Tris-Borate-EDTA (TBE)

Overview

Description:	10X Tris-Borate-EDTA (TBE) (0.9 M Tris-Borate 0.01 M EDTA pH 8.3) - MB-019
Item No.:	MB-019
Size:	1 L

Product Details

Background:	TBE is often used in procedures involving nucleic acids, the most common being electrophoresis in molecular biology. Tris-acid solutions are effective buffers for slightly basic conditions, which keep DNA deprotonated and soluble in water. EDTA is a chelator of divalent cations, particularly of magnesium (Mg^{2+}). As these ions are necessary co-factors for many enzymes, including contaminant nucleases, the role of the EDTA is to protect the nucleic acids against enzymatic degradation. But since Mg^{2+} is also a co-factor for many useful DNA-modifying enzymes such as restriction enzymes and DNA polymerases.
Synonyms:	buffer containing boric acid and EDTA

Target Details

Purity/Specificity:	This product was aseptically filtered through a Millipore 0.22 micron filter into clean, pre-sterilized containers. The product was tested on trypticase soy agar for 24 hours, 48 hours and 72 hours and was found to be negative for bacteria.
Relevant Links:	• MB-019 SDS

Application Details

Application Note:	10X Tris-Borate EDTA (TBE) is a concentrated stock solution of consists of 0.9 M Tris-Borate, 0.01 M EDTA at a pH of 8.3 and should be diluted appropriately with distilled, deionized water or equivalent to its final working concentration. Meticulously prepared using ultra pure reagents dissolved in highly polished pharmaceutical grade deionized water.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	10 X
Buffer:	See application note.
Preservative:	None
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store container at room temperature (18° to 26° C) prior to opening.
Expiration:	Expiration date is six (6) months from date of receipt.

Images

Bottle
10X Tris-Borate-EDTA (TBE) (0.9 M Tris-Borate 0.01 M EDTA pH 8.3)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.