

Datasheet for MB-062-0500

1.0 M HEPES pH 7.2

Overview

Description:	1.0 M HEPES pH 7.2 - MB-062-0500
Item No.:	MB-062-0500
Size:	500 mL

Product Details

Background:	HEPES is a zwitterionic organic chemical buffering agent, and is widely used in cell culture, largely because it is better at maintaining physiological pH despite changes in carbon dioxide concentration (produced by cellular respiration) when compared to bicarbonate buffers, which are also commonly used in cell culture. HEPES is like water in that its dissociation decreases as the temperature decreases. This makes HEPES a more effective buffering agent for maintaining enzyme structure and function at low temperatures.
Synonyms:	4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid

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:	SDS

Application Details

Application Note:	1.0 M HEPES is a concentrated stock solution and should be diluted appropriately with molecular biology grade water or equivalent to its final working concentration. This buffer consists of 1.0 M HEPES at a pH of 7.2 and was prepared using ultra pure reagents dissolved in DEPC treated 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:	1.0 M
Buffer:	See application note.
Preservative:	None

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store container at room temperature (18° to 26° C) prior to opening. If desired, the solution may be stored at 4° C or less. Some salts may precipitate out of solution at lower temperature. Allow buffer to equilibrate to room temperature (18° to 26° C) to restore solubility of some salts.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Bottle
1.0 M HEPES pH 7.2

References

- Hornick AC et al. Interrogating antiviral antibody responses with multiplexed, high-throughput serum assays. *bioRxiv [Preprint]*. (2026)

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.