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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product Information



Potassium Hydroxide

Item No. 400029

IMPORTANT

Water used to prepare all EIA reagents and buffers must be deionized and free of trace organic contaminants ('UltraPure'). Use activated carbon filter cartridges or other organic scavengers. Glass distilled water (even if double distilled), HPLC-grade water, and sterile water (for injections) are not adequate for EIA. UltraPure water may also be purchased (Item No. 400000).

Laboratory Procedures

This reagent is formulated for acetylating samples and standards for use in the cAMP and cGMP assays. This reagent may not perform as described if used with other assay reagents or protocols. This reagent is to be used in conjunction with Acetic Anhydride (Item No. 400031) to produce an acetylating solution. This reagent is supplied as 100 determinations (dtn) or 500 determinations.

Prepare a 4 M solution of KOH by adding 10 ml UltraPure water to the 100 dtn size or 50 ml UltraPure water to the 500 dtn size of KOH. Store the 4 M solution of KOH at room temperature. It will be stable for approximately four weeks.

Acetylation Buffer Preparation

Prepare a 50 mM phosphate solution by combining 161 mg K_2HPO_4 and 554 mg KH_2PO_4 and diluting to a total volume of 100 ml with UltraPure water. The pH of this solution will be 6.2. This buffer may also be purchased as a 4 M solution (Item No. 400028).

Acetylation Protocol (based on a 500 μ l sample size)

To obtain accurate results, all standards and samples must be acetylated uniformly. It is important to be consistent in the acetylation technique as differences in vortex time and/or delayed addition of KOH may result in irreproducible results.

To begin, assemble the standards and samples. All samples and standards should be in acetylation buffer. Other buffers or culture media may interfere with the acetylation process. Acetylate by adding 100 μ l 4 M KOH and 25 μ l acetic anhydride in quick succession. Vortex for 15 seconds, and then add 25 μ l 4 M KOH and vortex. Repeat for all samples and standards.

NOTE: If your samples contain sugars at a concentration >250 mM, it may be necessary to proportionately increase the amount of KOH and acetic anhydride added to ensure complete acetylation of cAMP.

Related Products

Cyclic AMP EIA Kit - Item No. 581001 • Cyclic GMP EIA Kit - Item No. 581021

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery.**

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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