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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Leukotriene B₄ Immunoaffinity Sorbent (50% slurry)

Item No. 601301

Overview and Properties

Contents:	This vial contains 5 ml of leukotriene B ₄ immunoaffinity sorbent
Storage:	4°C (as supplied)
Stability:	As supplied, 1 year from the QC date provided on the Certificate of Analysis, when stored properly

Procedures

This vial contains 5 ml of leukotriene B₄ (LTB₄) affinity sorbent (mouse anti-LTB₄ antibody covalently bound to Sepharose 4B) supplied as a 50:50 mixture in Eicosanoid Affinity Column Buffer. This sorbent is stable for at least one year if stored at 4°C. Do NOT freeze. The sorbent can bind a range of 10 pg-10 ng of LTB₄ when applied to 0.4 ml of slurry.

Cayman's leukotriene B₄ immunoaffinity sorbent can be used for the rapid purification and enrichment of LTB₄ from biological samples for subsequent analysis by ELISA or mass spectrometry. Sufficient LTB₄ immunoaffinity sorbent is supplied for approximately 25 tests. The sorbent is intended for single use only. We do not recommend reuse.

Sample Preparation

All samples must be free of particulates and precipitates and be at approximately neutral pH (6.5-7.5). Plasma samples should be centrifuged at 1,000 x g for 1 minute. Transfer the supernatant to a new tube and dilute 1:5 with Column Buffer.

IMPORTANT

Water used to prepare all ELISA 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 ELISA. UltraPure Water is available for purchase from Cayman (Item No. 400000).

Reagent Preparation

Prepare the following reagents for use with the affinity sorbent.

1. Eicosanoid Affinity Column/Wash Buffer

Prepare a 0.1 M phosphate buffer solution by combining 13.3 g potassium phosphate (dibasic), 3.22 g potassium phosphate (monobasic), 0.5 g sodium azide, and 29.2 g sodium chloride. Dilute to a total volume of 1.0 liter with UltraPure Water. The pH of this buffer will be 7.4. This buffer may be purchased as a 5X concentrated buffer (Eicosanoid Affinity Column Buffer (5X); Item No. 400220).

2. Eicosanoid Affinity Column Elution Solution

Elution solution A. 100% methanol

Elution solution B. 47.5% acetonitrile/47.5% isopropanol/5% formic acid

LTB₄ immunoaffinity sorbent preparation

1. Re-suspend the LTB₄ affinity sorbent by gentle inversion of the tube
2. Transfer 400 µl of sorbent slurry (50% resin and 50% eicosanoid column buffer mix) to a fritted spin column capable of holding 5 ml total volume (G-Biosciences Item No. 786-726) and place sorbent-containing spin column in a 15 ml conical collection tube.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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3. Add 1,000 μ l eicosanoid affinity column/wash buffer
 - a. Centrifuge at 500 x g for one minute to wash
 - b. Discard the flow through
4. Repeat the wash two additional times

LTB₄ Immunoaffinity purification

1. Dilute plasma 1:5 in eicosanoid affinity column/wash buffer
2. Apply diluted plasma to the LTB₄ affinity sorbent
3. Centrifuge at 500 x g saving the flow through
4. Repeat steps two and three two additional times with the flow through to ensure sample depletion of LTB₄
5. Save flow through after the final wash for subsequent analysis if required
6. Add 1,000 μ l eicosanoid affinity column/wash buffer to the resin
 - a. Centrifuge at 500 x g for one minute to wash
 - b. Discard the flow through
7. Repeat step 6 two additional times
8. Add 1,000 μ l of ultra-pure or milliQ water to the resin
 - a. Centrifuge at 500 x g for one minute to wash
 - b. Discard the flow through

Elution for LC-MS/MS analysis

1. Transfer sorbent-containing spin column from step 8 to a new 15 ml conical collection tube
2. Add 500 μ l of elution buffer to the sorbent

NOTE: Elution solutions A and B result in similar recovery percentages of LTB₄ from spiked samples. User is responsible for choosing the elution solution that is best suited to their LC-MS/MS needs
3. Centrifuge at 500 x g to collect eluted materials

Elution for ELISA analysis

1. Transfer sorbent-containing spin column from step 8 to a new 15 ml conical collection tube
2. Add 500 μ l of elution solution A to the sorbent
3. Centrifuge at 500 x g to collect eluted materials
4. Evaporate to dryness under nitrogen or vacuum centrifugation, and re-suspend the eluted material in ELISA compatible buffer. Re-suspend in ELISA buffer (ELISA Buffer Concentrate (10X); Item No. 400060) if the Cayman Leukotriene B₄ ELISA Kit (Item No. 520111) will be used for sample analysis.