SPE Cartridges (Mixed Bed)

Item No. 400021

The SPE Cartridges (mixed bed) are mixed-mode cartridges packed with non-polar and strong anion exchange chemistries. As this product relates to Cayman’s product line, this column has been utilized for the purification of 11-dehydro thromboxane B$_2$ (11-dehydro TXB$_2$) from urine samples. If your samples are being purified and analyzed for compounds other than 11-dehydro TXB$_2$, you may want to contact Cayman directly for appropriate technical information.

Purification Protocol

Solutions needed:
1. Buffer A: 63 mM ammonium bicarbonate, pH 8.6
2. Buffer B: 1:100 dilution of Buffer A (do not adjust pH of diluted buffer)
3. Methanol
4. Elution Solution: methanol containing 2% formic acid; made fresh just before use
5. 11-dehydro Thromboxane B$_2$ EIA Buffer Concentrate (10X) (Item No. 419507); dilute as instructed on the insert

Procedure (based on 1 ml of sample):
1. Dilute centrifuged samples with an equal volume of Buffer A and incubate at room temperature for three hours.
2. Condition column with 3 ml methanol, followed by 3 ml deionized water. Do not allow the column to go dry.
3. Apply the sample to the column using gravity flow.
4. Rinse the column sequentially with 3 ml of Buffer B, 3 ml deionized water, and then with 6 ml methanol.
5. Elute the 11-dehydro TXB$_2$ using 2 ml of elution solution NOTE: It is critical that the elution solution be used within 1-2 hours of preparation.
6. Evaporate the sample to dryness under a gentle stream of dry nitrogen.
7. Resuspend the sample in 1 ml of diluted 11-dehydro TXB$_2$ EIA Buffer.

Reference

Related Products
SPE Cartridges (C-18) - Item No. 400020 • 11-dehydro Thromboxane B$_2$ EIA Kit - Item No. 519501