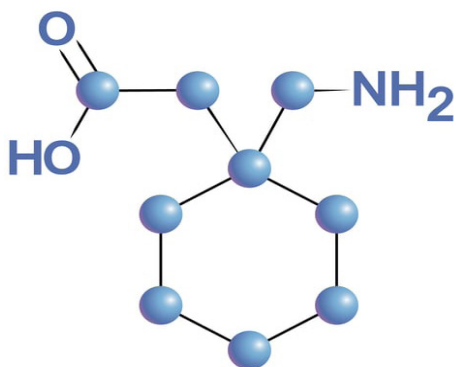


Gabapentin In Blood, Plasma/Serum For GC Or GC/MS Analysis Using: 100 mg Clean-Up® C18 Extraction Column



UCT Part Numbers

CUC18111
Clean-Up® C18 - Unendcapped
100 mg 1 mL

Procedure:

1. Prepare Sample

- To 500 µL of 20% acetic acid add internal standard*. Mix/vortex. Add 500 µL of blood, plasma/ serum
- Mix/vortex
- Centrifuge as appropriate

2. Condition Column

- 1 x 3 mL CH₃OH
- 1 x 3 mL D.I. H₂O
- 1 x 1 mL 100 mM HCL

Note: Aspirate at < 3 inches Hg to prevent sorbent drying

3. Apply Sample

- Load at 1 mL/minute

4. Wash Column

- 1 x 3 mL D.I. H₂O
- 1 x 3 mL ethyl acetate
- 1 x 3 mL hexane
- Dry column (5 minutes at > 10 inches Hg) or until column is dry

5. Elution

- 1 x 1 mL 2% NH₄OH in CH₃OH

6. Dry Eluate

- Evaporate to dryness at < 40 °C.

7. Derivatization

- Add 50 µL of ethyl acetate and 50 µL of BSTFA (1% TCMS)
- Or**
- Add 50 µL of MTBSTFA + 1 % t-BDMCS** and 50 µL ethyl acetate
 - Cap and heat at 70 °C for 30 minutes
 - Remove and allow to cool

8. Quantitate

- Inject 1 to 2 µL onto gas chromatograph.

Compound	Primary	Secondary	Tertiary	Cerilliant #
Gabapentin-TMS	210	225	182	G-007
*Gabapentin-D10-TMS	220	235	192	B-130315-10

*** INTERNAL STANDARD:**

1-aminomethyl-1-cycloheptyl acetic acid (FID) : Gabapentin-D10 (GC-MS)

** Part # SMTBSTFA-1-1,10,25,100



References:

- [1] Carl E. Wolf II, Joseph Sady, and Alphonse Pokalis Determination of Gabapentin in Serum using Solid Phase Extraction and Gas-Liquid Chromatography. Journal of Analytical Toxicology 20:498-501 (October 1996)

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