

Carbamazepine (Tegretol)

Order Name: **TEGRETOL**

Test Number: 4004800

Revision Date: 04/30/2021

| TEST NAME                | METHODOLOGY        | LOINC CODE |
|--------------------------|--------------------|------------|
| Carbamazepine (Tegretol) | Enzyme Immunoassay | 3432-2     |

| SPECIMEN REQUIREMENTS |                                                                                          |               |                                       |                       |
|-----------------------|------------------------------------------------------------------------------------------|---------------|---------------------------------------|-----------------------|
| Specimen              | Specimen Volume (min)                                                                    | Specimen Type | Specimen Container                    | Transport Environment |
| Preferred             | 1 mL (0.5)                                                                               | Plasma        | Lithium Heparin PST (Light Green Top) | Refrigerated          |
| Alternate 1           | 1 mL (0.5)                                                                               | Serum         | Clot Activator SST                    | Refrigerated          |
| Instructions          | Draw before next dose.<br>Stability: Ambient 2 days, Refrigerated 7 days, Frozen 1 month |               |                                       |                       |

| GENERAL INFORMATION |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Testing Schedule    | Daily                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Expected TAT        | 1-2 days                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clinical Use        | Useful for monitoring patients with Tegretol toxicity.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Notes               | Carbamazepine and its metabolite (10,11- Carbamazepine epoxide) are widely used for control of generalized tonic-clonic, partial-onset, complex and mixed seizure disorders. The metabolism of carbamazepine in epileptic patients has several different pathways that can be altered when the patient is co-medicated with other anticonvulsants and, therefore, it's therapeutic level should be monitored along with its metabolite in their free and protein bound states. |
| CPT Code(s)         | 80156                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Lab Section         | Chemistry                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |