



neurocode

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Voltage-Gated Calcium Channel Antibodies by Radioimmunoprecipitation (VGCC RIPA)

Test Name	Voltage-gated calcium channel antibodies by RIPA
Abbreviations	VGCC Ab; VGCC RIPA
CPT code	86596
Methodology	IVD radioimmunoprecipitation assay
Intended Use	Measurement of VGCC antibodies to aid in the diagnosis of Lambert-Eaton myasthenic syndrome (LEMS)
Test requirements	<u>Specimen Type</u> : Serum <u>Minimum volume</u> : 0.5 mL <u>Preferred volume</u> : 3 mL <u>Rejection criteria</u> : grossly hemolytic, icteric, or lipemic. If the sample arrives at room temperature.
Specimen collection	<ul style="list-style-type: none"> No patient preparation required before collection. 5 mL SST tube (gold-top) Spin tubes, aliquot serum, and ship on cold- packs same day
Specimen stability	Up to 7 days refrigerated (2 – 8°C) -20°C for longer term storage – avoid subsequent freeze thaws
Test schedule	TBD
TAT	TBD
Reference range	Negative: ≤ 30 Positive: > 30
Limitations	Please indicate if patients are on immunomodulating treatments as these may interfere with testing.
References	<ul style="list-style-type: none"> Zalewski NL, et al. P/Q-and N-type calcium-channel antibodies: oncological, neurological, and serological accompaniments. Muscle Nerve. 2016 Aug;54(2):220-7. Lozier BK, et al. Performance evaluation of a radioimmunoprecipitation assay for the detection of N-type voltage-gated calcium channel antibodies. J Immunol Methods. 2021 Sep 1;496:113102.

