



Patient ID SA00153621	Patient Name TESTINGRNV, KCSF AB	Birth Date 1980-09-09	Sex M	Age 41
Order Number SA00153621	Client Order Number SA00153621	Ordering Physician CLIENT, CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 10 Jul 2022 00:00		

Kappa Free Light Chain, CSF



High

0.1000 mg/dL

Positive.

1 SDL

Reference Value
<0.1000

(infectious, inflammatory, cerebrovascular, autoimmune, and paraneoplastic).

Suggest additional CSF testing such as oligoclonal banding by isoelectric focusing and CSF IgG index if clinically indicated.

References:

- Gurtner KM, Shosha E, Bryant SC, Andreguetto BD, Murray DL, Pittock SJ, et al. CSF free light chain identification of demyelinating disease: comparison with oligoclonal banding and other CSF indexes. Clin Chem Lab Med. 2018;56(7):1071–80.
- Saadeh RS, Bryant SC, McKeon A, Weinshenker B, Murray DL, Pittock SJ, et al. CSF Kappa Free Light Chains: Cutoff Validation for Diagnosing Multiple Sclerosis. Mayo Clin Proc. 2021; S0025–6196(21)00710–2. doi: 10.1016/j.mayocp.2021.09.014.

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A Mayo Clinic study published in 2018 with 325 patients suggested that a kappa free light chain concentration in CSF greater than or equal to 0.06 mg/dL has 92.5% clinical sensitivity in the diagnosis of multiple sclerosis (ref 1).

A second, Mayo Clinic study with 1355 patients published in 2021 showed that a kappa CSF concentration greater than or equal to 0.06 mg/dL had approximately 89% sensitivity. When kappa was greater than or equal to 0.1 mg/dL it had similar sensitivity (87%) to the finding of 2 unique CSF oligoclonal bands (89%) (ref 2).

These findings are not specific for multiple sclerosis because CSF-specific immunoglobulin synthesis may also be detected in patients with other neurologic diseases

Laboratory Notes

- 1** This test has been modified from the manufacturer's instructions. Its performance characteristics were determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
SDL	Mayo Clinic Laboratories - Rochester Superior Drive	3050 Superior Drive NW, Rochester MN 55901	William G. Morice M.D. Ph.D.	24D1040592