

Senior-Loken Syndrome: Deletion/Duplication Panel

Test Code: MD235

Turnaround time: 2 weeks

CPT Codes: 81228 x1, 81405 x1

Condition Description

Senior-Loken syndrome is an autosomal recessive retinal-renal syndrome with clinical features of nephronophthisis and Leber congenital amaurosis (LCA).

References:

- Daiger *et al.* (1998) *Invest Ophthalmol Vis Sci* 39:S295.
- OMIM
- GeneReviews

Genes

[CEP290](#), [INVS](#), [IQCB1](#), [NPHP1](#), [NPHP3](#), [NPHP4](#), [SDCCAG8](#)

Indications

This test is indicated for:

- Confirmation of a clinical diagnosis of Senior-Loken syndrome.
- Carrier testing in adults with a family history of Senior-Loken syndrome.

Methodology

Deletion/Duplication Analysis: DNA isolated from peripheral blood is hybridized to a gene-targeted CGH array to detect deletions and duplications. The targeted CGH array has overlapping probes that cover the entire genomic region.

Detection

Deletion/Duplication: Detection is limited to duplications and deletions. The CGH array will not detect point or intronic pathogenic variants. Results of molecular analysis must be interpreted in the context of the patient's clinical and/or biochemical phenotype.

Specimen Requirements

Submit only 1 of the following specimen types

Type: Whole Blood (EDTA)

Specimen Requirements:

EDTA (Purple Top)

Infants and Young Children (2 years of age to 10 years old): 3-5 ml

Older Children & Adults: 5-10 ml

Autopsy: 2-3 ml unclotted cord or cardiac blood

Specimen Collection and Shipping:

Ship sample at room temperature for receipt at EGL within 72 hours of collection. Do not freeze.

Type: DNA, Isolated

Specimen Requirements:

Microtainer

3µg

Isolation using the Perkin Elmer™ Chemagen™ Chemagen™ Automated Extraction method or Qiagen™ Puregene kit for DNA extraction is recommended.

Specimen Collection and Shipping:

Refrigerate until time of shipment in 100 ng/µL in TE buffer. Ship sample at room temperature with overnight delivery.

Special Instructions

Please include fundus photographs, electroretinogram (ERG) findings, visual field findings, and visual acuity, if available, for expert review and clinical correlation with test results.

Related Tests

- Eye Disorders: Comprehensive Sequencing and Deletion/Duplication Panels.
- Senior-Loken Syndrome: Sequencing Panel.