

# Interleukin-2 (IL-2) Serum

Test Code: 30041

## Clinical and Procedure

### Clinical Utility

Cytokines have emerged as molecules of importance in the regulation of many immunologic processes in the cell. The ability to accurately measure quantitative and qualitative differences in cytokine production is becoming increasingly important to the understanding of normal and pathological processes.

### Procedure

Multiplex array format with Meso Scale Discovery (MSD®) Sector Imager 2400. MSD Cytokine assays measure from one to ten cytokines in a 96 well MULTI-SPOT plate. The assay employs a sandwich immunoassay format. MSD technology uses electrochemiluminescence detection; a CCD camera allows for the quantification of light emitted from each spot in each well. MSD software generates a standard curve to determine sample cytokine concentrations. This test has not been cleared or approved for diagnostic use by the U.S. Food and Drug Administration.

## Turnaround Time

3-5 business days from receipt of specimen

## Specimen Information

| Specimen Type | Order Code | CPT Code | NY Approved | Volume | Assay Range |
|---------------|------------|----------|-------------|--------|-------------|
|---------------|------------|----------|-------------|--------|-------------|

|       |       |       |     |                    |                  |
|-------|-------|-------|-----|--------------------|------------------|
| serum | 30041 | 83520 | Yes | 1 mL (min. 100 uL) | 0.5 - 2200 pg/mL |
|-------|-------|-------|-----|--------------------|------------------|

#### Special Instructions

- 1 mL, serum, ship frozen overnight on dry ice.
- Stability 24 hours frozen, stable 3 freeze/thaw cycles.

The result is reported in pg/mL. The assay range is approximately 0.5 to 2200. The reference range for a healthy population is less than 1.9. However it should be noted that these ranges are obtained from a limited population of apparently healthy adults and are not diagnostic thresholds.

## Disclaimer

Specimens are approved for testing in New York only when indicated in the Specimen Information field above.

The CPT codes provided are based on Viracor Eurofins' interpretation of the American Medical Association's Current Procedural Terminology (CPT) codes and are provided for general informational purposes only. CPT coding is the sole responsibility of the billing party. Questions regarding coding should be addressed to your local Medicare carrier. Viracor Eurofins assumes no responsibility for billing errors due to reliance on the CPT codes illustrated in this material.

## References

Chung KF Cytokines: An overview in New Drugs for Asthma, Allergy and COPD, Prog Respir Res. 2001, vol 31: 242-246. MSD 96-Well MULTI-ARRAY and MULTI-SPOT Human Cytokine Assays: Ultra Sensitive Kit package insert. Meso Scale Discovery Bienvenu JA et al. Cytokine assays in human sera and tissues. Toxicology 1998; 129: 55-61. Debad, J.D., Glezer, E.N., Wohlstadfer, J.N., Sigal, G.B. (2004) Clinical and Biological Applications of ECL. In Electrogenerated Chemiluminescence, ed. A.J. Bard. Marcel Dekker, New York, pp. 43-78.



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