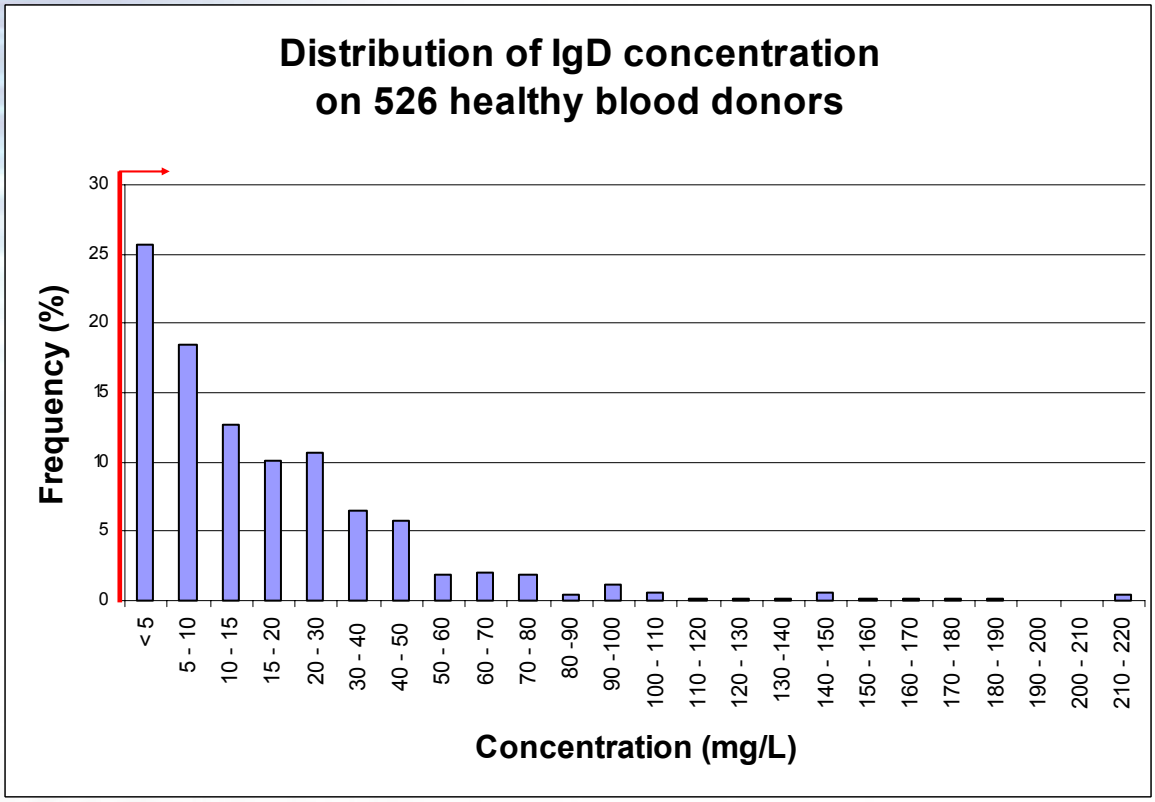
ANI Labsystems

Easy measurement of immunoglobulin D with IgD Quant EIA

- Excellent sensitivity
- More accurate than RID or nephelometry
- No interference from turbidity or degradation of samples
- Cross reactivity with other Ig classes < 1%
- Only EIA test available



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Discovered in 1965, IgD is a unique immunoglobulin with a concentration in serum far below those of IgA, IgG and IgM but much higher than that of IgE. Little is known about the normal function of IgD, and few clinical signs or symptoms are associated with its absence.

Hyper Immunoglobulin D Syndrome (HIDS) has been reported as a major cause of elevated level of IgD. HIDS is found in patients with unexplained periodic fever and joint disease. High level of IgD is also found in IgD myeloma, diverse infections (tuberculosis, leprous, aspergillosis), AIDS, rheumatoid polyarthritis, Hodgkin's disease, diabetes, cirrhosis, Mediterranean family fever, tobacco smoking and pregnancy.

IgD deficiency is a defect of humoral immunity that is characterized by abnormally low serum levels of IgD. Traditionally, IgD level in serum has been measured with the other classes of immunoglobulin since low levels of IgD may be associated with the presence of other immune disorders. In case of IgD deficiency discovery, the patient should be referred to an allergist or clinical immunologist to help exclude other more serious related conditions

Serology - an important tool

Ani Labsystems' IgD Quant EIA kit quantifies immunoglobulin D (IgD) present in human serum or plasma. This Enzyme Immuno Assay (EIA) method is more convenient than typically used nephelometry or Radial Immunodiffusion (RID) methods.

Because of the susceptibility to proteolysis, radial immunodiffusion (RID) may overestimate IgD level, whereas turbidity interferes with nephelometry. Neither of these methods is sensitive enough for low concentrations of proteins which means that over 80 % of normal population concentrations cannot be quantified by these methods. The excellent sensitivity of Ani Labsystems' IgD Quant EIA allows quantification of concentrations down to 0,1 mg/L. With one sample dilution a linear detection is achieved up to 500 mg/L.

Therefore Ani Labsystems' IgD Quant EIA offers a robust and reliable tool for the quantification of human IgD in serum or plasma.

Procedure

Dilute sample 1:250

Pipette 100 µl of ready-to-use calibrators and controls

Pipette 5 µl diluted sample + 95 µl sample diluent

Incubate 60 min at 37°C
Wash

Add 100 µl conjugate
Incubate 60 min at 37°C
Wash

Add 100 µl TMB-substrate
Incubate 30 min at RT in dark
Add 100 µl stopping solution
Measure at 450 nm

Ordering Information

6400100	IgD Quant EIA	96 wells	CE

May 11, 2009

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