

## **Dot-enzyme-linked immunosorbent assay (Dot-ELISA) of anti-Entamoeba histolytica antibodies in human serum and colostrum**

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### **Dot-enzyme-linked immunosorbent assay (Dot-ELISA) of anti-Entamoeba histolytica antibodies in human serum and colostrum**

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### **Abstract**

Seroepidemiologic and clinical studies of amoebiasis require improved methods for the detection and titration of anti-Entamoeba histolytica (Eh) trophozoite antibodies. We have developed a Dot-enzyme-linked immunosorbent assay (Dot-ELISA) to titrate anti-Eh antibodies in human serum and colostrum. The anti-Eh serum IgG antibody titers from healthy individuals and from patients with amoebic liver abscess obtained, with our Dot-ELISA were similar to those obtained with a standard ELISA, but the background values were lower. Significant anti-Eh sIgA antibody titers were found in seven out of 42 colostrum samples of mothers of newborn children with diarrhea. Our Dot-ELISA is rapid, inexpensive, and might be used for the diagnosis of individuals and in seroepidemiologic studies of amoebiasis.

### **Reference:**

Gandhi B.M. : A dot immunobinding assay (DIA) on nitrocellulose membrane for the serological detection of antibodies to *Entamoeba histolytica*, Transactions of the Royal Society of Tropical Medicine and Hygiene, Volume 80, Issue 6, 1986, Pages 883-885