Newborn screening of Neonatal Toxoplasmosis

Enzyme immunoassay for the determination of IgM antibodies to Toxoplasma gondii from blood specimens dried on filter paper

- First Toxoplasma screening test in the world
- Quantitative results
- Clinically proven performance
- High sensitivity
- Easy adaptation to existing screening systems
Neonatal Toxoplasma gondii IgM

Easy and reliable screening for Congenital Toxoplasmosis

Excellent assay from Labsystems Diagnostics

Labsystems Diagnostics’ Neonatal Toxoplasma gondii IgM FEIA is intended for the determination of IgM-class antibodies to Toxoplasma gondii in blood specimens dried on filter paper. The test is intended as a primary method for screening of newborns for congenital toxoplasmosis (CT).

Because IgM-class antibodies, due to their high molecular weight, do not cross placenta, determination of specific antibodies in newborn specimens taken shortly after birth indicates exposure of the fetus intra utero to Toxoplasma gondii. Cases showing elevated levels of specific antibodies should be further investigated.

Labsystems Diagnostics’ assay is quantitative with 3 dried blood controls and 1 calibrator and compatible with existing neonatal screening system and assays, no additional investment is needed.

**Assay Procedure**

1. Punch 3 mm sample disks, add 150 μl anti-human IgM antibody
2. Incubate A) 30 min at RT shaking or B) 15 min at RT shaking and O/N at +4 °C
3. Remove disks, Wash
4. Add 150 μl antigenconjugate
5. Incubate 1 h at RT shaking, Wash
6. Add 150 μl substrate
7. Incubate 30 min (FEIA) at RT shaking
8. Add 50 μl (FEIA)stop solution
9. Measure at ex. 320 nm, em. 405 nm (FEIA)

Extensive studies in Brazil

In a 5-year prospective study in Brazil, in which 285,780 neonates were screened with Labsystems Diagnostics’ Neonatal Toxoplasma gondii IgM FEIA, the prevalence of CT was found to be 1 per 1,867. Of the 195 patients with congenital toxoplasmosis, 138 (70.7%) were asymptomatic until 7 years of age (2).

**References**


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Type 903 filter paper is used in all products.

*Labsystems Diagnostics Oy*

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