



# 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.

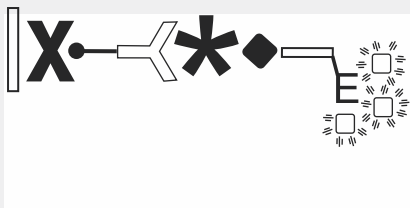
Labsystems Diagnostics' assay is quantitative with 3 dried blood controls and 1 calibrator and compatible with existing neonatal screening system and assays, no additional investment is needed.

#### 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

- 1) Remington J.S., Klein J.O., eds. Infectious diseases of the fetus and newborn infant. 3rd ed. Philadelphia: WB Saunders 1990 pp. 89-195.
- 2) Neto EC et al. Emerg. Inf. Dis. 2004;10: 1069-73

Cat.no.	Product name	Plate type	Packing size	Regulatory status
6199802	Neonatal Toxoplasma gondii IgM FEIA	96 well Strips	480 wells	CE marked

Type 903 filter paper is used in all products.

#### Labsystems Diagnostics Oy

Tiilitie 3, FI-01720 VANTAA, Finland Tel: +358 201 557 530

Email: sales@labsystemsdx.com

Web: www.labsystemsdx.com

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