

European Union Reference Laboratory for Parasites
Istituto Superiore di Sanità

Proficiency Testing for the detection of anti-*Toxoplasma* IgG in goat serum samples

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Aim

Detection of anti-*Toxoplasma* IgG in goat serum samples

17 Laboratories have been registered



ESTONIA



GREECE



PORTUGAL



FINLAND



LATVIA



ROMANIA



FRANCE



ICELAND



SLOVENIA



GERMANY (2)



HUNGARY



SPAIN



LITHUANIA



POLAND



ITALY



SLOVAK

Samples

A panel of 5 serum samples has been forwarded to each participant laboratory

Sample code	Title of serum sample	Expected result
1	NA	negative
2	160	positive
3	320	positive
4	640	positive
5	640	positive

Serum samples panel:

All serum samples were individually tested for anti-*Toxoplasma* IgG by a commercial kit (ID Screen® Toxoplasmosis Indirect Multi-species)

Serum samples were collected from both, *Toxoplasma gondii* free and experimentally infected goat

Positive and negative serum samples were aliquoted and preserved with 1% merthiolate solution, and stored at +4 °C

Methods

To detect anti-*Toxoplasma* IgG in serum samples, any serological test based on the detection of anti-*Toxoplasma* IgG could be used. Each laboratory should choose the test/s routinely used

17 Labs participated



14 Labs used one test
2 Labs (Tx1, Tx8) used two tests

Methods used by the participants: Immunoenzymatic methods



ELISA

ID VET SCREEN® TOXOPLASMOSIS INDIRECT MULTI-SPECIES:

Lab. Code: Tx1Tx3, Tx4, Tx5, Tx8Tx9,
Tx10, Tx13, Tx14, TX15, Tx16, Tx17

PRIOCHECK TOXOPLASMA Ab SR:
Lab.code: Tx8

**QUIAGEN® ELISA PIGTYPE
TOXOPLASMA TEST Ab:**
Lab.code: Tx7

EIA

CHEKIT :

Lab.code: Tx11

Other tests used by the participants:



“IN HOUSE” IFAT:

Lab.CODE: Tx6

Latex agglutination :
(TOXO-SCREEN DA BIOMERIEUX)

Lab.CODE:Tx1,Tx2,Tx12

Results

Sample codes	Aspected results	LAB codes																
		Tx 1	Tx 2	Tx 3	Tx 4	Tx 5	Tx 6	Tx 7	Tx 8	Tx 9	Tx 10	Tx 11	Tx 12	Tx 13	Tx 14	Tx 15	Tx 16	Tx 17
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
6	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
11	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
13	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

All Labs correctly classified (as positive or negative) all serum samples independently of the test used

CONCLUSIONS 1

All tests (commercial and “in-house”) used have shown 100% of agreement

All commercial and in-house tests have provided consistent results

The more frequently used tests are immunoenzimatic assays

CONCLUSIONS 2

**The final evaluation of this PT is “positive”
since all samples were correctly classified**



**Thank
for your participation**