

Full-Spectrum Bioprocess Reagents.
EU Supplier.

Diagnostics Catalogue

Veterinary diagnostics built for field and laboratory use:
rapid tests and antigens.

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Introduction

Accurate in vitro diagnostics heavily depend on the quality of the molecular recognition component (antigen or antibody) and the reliability of the assay format in which it is deployed. LT Biotech diagnostic catalogue includes validated native and recombinant antigens for in-house assay development, and ready-to-use lateral flow rapid tests for on-site veterinary field diagnostics.

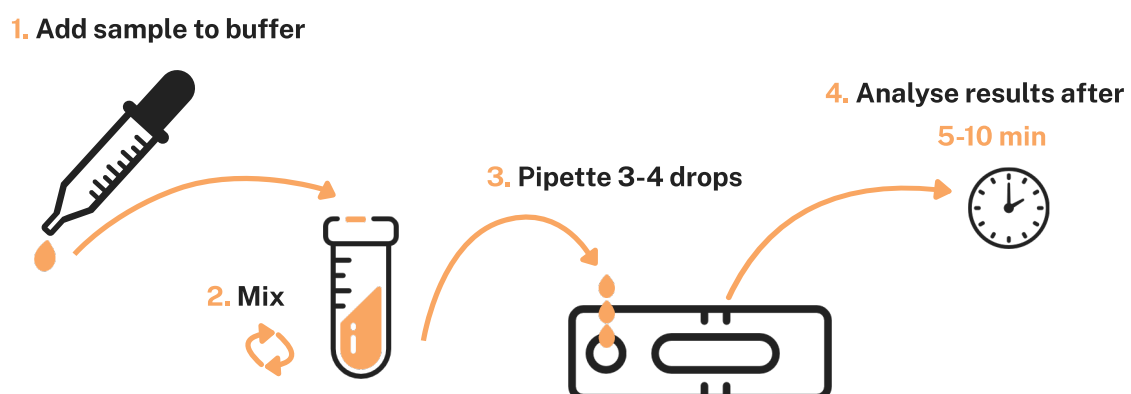
For organisations developing their own diagnostic products, LT Biotech offers scientific services. The ELISA Kit Development service covers the full development process, from defining kit format and antibody conjugation strategy through to optimised, customised kits with positive and negative controls, designed for accuracy and reproducibility across a wide range of analytes.

The Antibody and Antigen Development service covers custom peptide synthesis for antigen design, including careful selection of accessible, highly immunogenic, and target-unique epitopes to generate high-affinity antibodies and recombinant antigen development from expression systems including *E. coli* and CHO cells.

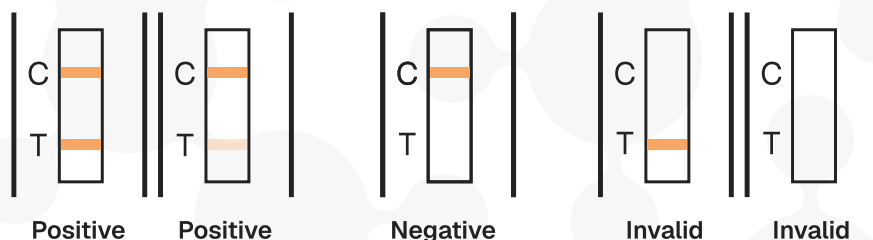
Common Testing Procedure

1. Allow the specimen and test device, to recover at 15-25°C and add 1 drop of the sample to the vial using a pipette, with the buffer solution.
2. Mix carefully using the pipette.
3. Add 3-4 drops of the sample diluted in the buffer to the sample hole.
4. Analyze the results after 5-10 minutes.

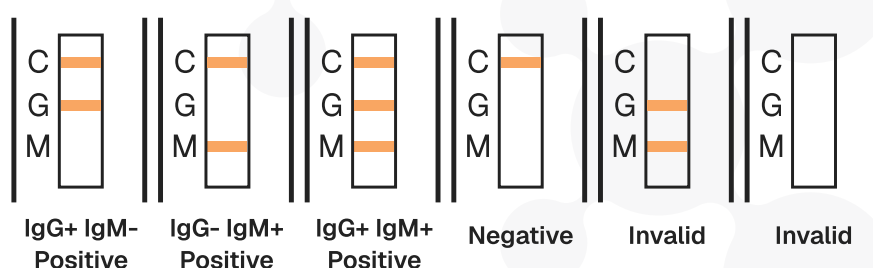
This is the common procedure, test procedures may differ. Please read the instructions provided with each test kit before use.



Results Interpretation



PPR Virus (Cat. Code: PPRLTFLOW)
 Paratuberculosis (Cat. Code: MAPLTFLOW)
 Brucella (Cat. Code: BRSLTFLOW)
 Trichinella (Cat. Code: TRSLTFLOW)
 Calicivirus (Cat. Code: FCVLTFLOW)
 Herpesvirus (Cat. Code: FHVLTFLOW)
 Infectious Peritonitis (Cat. Code: FIPLTFLOW)
 Panleukopenia (Cat. Code: FPVLTFLOW)
 Feline Pregnancy (Cat. Code: FRLTFLOW)



Toxoplasma (Cat. Code: TOXOLTFLOW)

This is a common procedure and result interpretation may differ between test types. Please read the instructions, which are inside the rapid test box carefully before use of each rapid test. All the rapid tests are for in vitro veterinary diagnosis only. All results should be considered with other clinical information available from veterinarians. A different confirmative method is suggested to apply additionally when positive results are observed.

Antigens

LT Biotech diagnostic antigens are produced under stringent quality control and validated according to OIE and/or EU requirements. Each lot is tested for purity and specificity using validated immunoassay formats prior to release. Antigens are supplied lyophilised for long-term stability and shipped with lot-specific performance data.

Product code	Product name	Source	Applications	Pack size
LT-AG Bru abortus-01	Brucella abortus Native LPS Antigen	B. melitensis biovar Abortus native isolate	ELISA, Lateral Flow	10 mg / 50 mg / 100 mg
LT-AG Bru SUIS-01	Brucella suis Native LPS Antigen	Brucella suis native isolate	ELISA, Lateral Flow	10 mg / 50 mg / 100 mg
LT-AG TSP-01	Trichinella spiralis Recombinant Excretory-Secretory Protein (TES Antigen)	Recombinant E. coli	ELISA, Lateral Flow	1 mg / 5 mg / 10 mg

Product line features

Brucella abortus Native LPS Antigen

- Extracted from *Brucella melitensis* biovar Abortus by chemical and enzymatic methods
- Reacts specifically with human and animal sera infected by *B. melitensis* biovar Abortus
- Validated by indirect ELISA using the Bovine Brucellosis French National Positive Standard Serum Panel (ANSES) at 1/20 dilution
- Supplied in PBS without stabiliser or preservative

Brucella suis Native LPS Antigen

- Extracted from *Brucella suis* native isolate by chemical and enzymatic methods
- Reacts specifically with animal sera infected by *Brucella suis*
- Validation ongoing in accordance with OIE requirements
- Supplied in PBS without stabiliser or preservative

Trichinella spiralis TES Antigen

- Recombinant excretory-secretory protein (47.5 kDa, pI 8.8) expressed in *E. coli*
- Purified by affinity chromatography via 6xHis tag
- Reacts specifically with human and animal sera infected by *Trichinella spiralis*
- Supplied in 2 M Urea, 0.05 M Tris-HCl, 0.5 M NaCl, pH 8.0

These products are sold as an antigen preparation for research use only. Standard Laboratory Practices should be followed when handling this material.

Ordering information

Antigens are supplied lyophilised with lot-specific concentration data. *Brucella* antigens are available in 10 mg, 50 mg, and 100 mg. TES antigen is available in 1 mg, 5 mg, and 10 mg. Custom quantities available on request. Contact info@ltbiotech.it.

Veterinary Rapid Tests

LT Biotech veterinary rapid tests are lateral flow immunochromatographic assays for on-site detection of pathogens and antibodies in animal specimens. Each kit is supplied complete with test devices, assay buffer, and product manual. Results are available in 5–10 minutes without specialised equipment. All tests are for in vitro veterinary diagnostic use only. All results should be interpreted by a veterinarian in the context of the clinical picture. Confirmatory testing is recommended for positive results.

Feline Rapid Tests

Product code	Product name	Target	Sample type	Assay time
TOXOLTFLOW	Feline/Canine Toxoplasma IgG/IgM Antibody Rapid Test	Anti-Toxoplasma IgG and IgM	Serum, plasma, whole blood	5–10 min
FPVLTFLOW	Feline Panleukopenia Virus Antigen Rapid Test (FPV Ag)	Feline Parvovirus antigen	Faeces or anal swab	5–10 min
FHVLTFLOW	Feline Herpesvirus Type 1 Antigen Rapid Test (FHV-1 Ag)	FHV-1 antigen	Ocular, nasal, anal secretions, plasma or serum	5–10 min
FIPLTFLOW	Feline Infectious Peritonitis Antibody Rapid Test (FIPV Ab)	Anti-FIPV antibodies	Pleural and ascitic fluid	5–10 min
FRLTFLOW	Feline Pregnancy Relaxin Rapid Test (FRL)	Relaxin hormone	Serum, plasma	5–10 min
FCVLTFLOW	Feline Calicivirus Antigen Rapid Test (FCV Ag)	FCV antigen	Ocular, nasal secretions	5–10 min

Product line features

Toxoplasma IgG/IgM Rapid Test

- Simultaneous detection of IgG and IgM anti-Toxoplasma antibodies in feline and canine samples
- Unique three-zone device (C/G/M) allows differentiation of acute (IgM) and prior (IgG) exposure
- The presence of IgG antibodies indicates that the animal has been contracted to Toxoplasma gondii, while the presence of IgM antibodies indicates a possible current contract with the pathogen.

FPV Antigen Rapid Test

- Qualitative detection of Feline Panleukopenia Virus (Parvovirus) antigen in faecal samples
- For rapid on-site diagnosis of highly contagious feline parvoviral enteritis

FHV-1 Antigen Rapid Test

- Detects Feline Herpesvirus Type 1 from swabs of ocular, nasal, and anal secretions
- For field diagnosis of feline viral rhinotracheitis

FIPV Antibody Rapid Test

- Detects anti-coronavirus antibodies in cats with suspected Feline Infectious Peritonitis
- Accepts serum, plasma, and ascitic fluid

Feline Pregnancy Relaxin Rapid Test

- Non-invasive confirmation of pregnancy in female cats on days 25-32 of gestation (after mating)
- Relaxin hormone in pregnant cats is generated mainly by the placenta
- The detection limit in blood serum or plasma is 3.8 ng/mL
- It is recommended to repeat the test after 1 week if a negative result was observed

FCV Antigen Rapid Test

- Qualitative detection of Feline Calicivirus antigen from ocular and nasal secretion swabs
- For rapid field diagnosis of feline upper respiratory complex

Ordering information

Antigens are supplied lyophilised with lot-specific concentration data. Brucella antigens are available in 10 mg, 50 mg, and 100 mg. TES antigen is available in 1 mg, 5 mg, and 10 mg. Custom quantities available on request. Contact info@ltbiotech.it.

Ruminant and Porcine Rapid Tests

Product code	Product name	Target	Sample type	Assay time
TRSLTFLOW	Trichinella Antibody Rapid Test	Anti-Trichinella spiralis antibodies	Pig serum, plasma, whole blood	5–10 min
BRSLTFLOW	Brucella Antibody Rapid Test	Anti-Brucella antibodies	Animal serum, plasma	5–10 min
PPRLTFLOW	Peste des Petits Ruminants Virus Antibody Rapid Test (PPR Ab)	PPR virus antibodies	Sheep serum, plasma	5–10 min
MAPLTFLOW	Bovine Paratuberculosis (MAP) Test	Anti-Mycobacteria Avium Paratuberculosis (MAP) Antibodies	Bovine whole blood, blood serum, plasma	5–10 min

Product line features

Trichinella Antibody Rapid Test

- Sandwich lateral flow assay for qualitative detection of anti-Trichinella spiralis antibodies in whole blood, serum, and plasma specimen of Pigs which the test is validated on, but also suitable for Boars, Horses, Bears, Badgers, Dogs, Foxes, Wolves, and other animals susceptible to Trichinella infections

Brucella Antibody Rapid Test

- Lateral flow assay for rapid detection of anti-Brucella antibodies in animal samples
- For field screening in Brucella-endemic regions and outbreak investigation in Cattle, Camels, Sheep, Goats, Hares, Dogs, Wolves, Foxes, Deer & Roe Deer, Pigs & Boars

PPR Virus Antibody Rapid Test

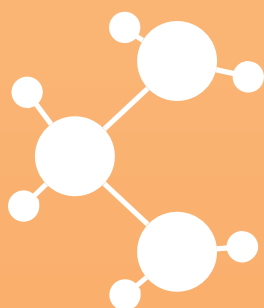
- Rapid qualitative detection of anti-PPR virus antibodies in sheep serum or plasma
- For surveillance and diagnosis of Peste des Petits Ruminants in small ruminants

Bovine Paratuberculosis (MAP) Test

- Suitable for the detection of anti-Mycobacteria Avium Paratuberculosis (MAP) Antibodies in whole blood, serum, and plasma specimens of cattle
- Clinical signs appear after 2-12 years after initial infection and include reduced milk production, progressive weight loss, submandibular edema, persistent diarrhea

Storage and ordering information

All rapid test kits are supplied as complete sets per box. Store at room temperature (4–30 °C); do not freeze; protect from direct sunlight. Do not use beyond the expiry date marked on the label. For kit quantities, pricing, and regulatory documentation, contact info@ltbiotech.it.



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