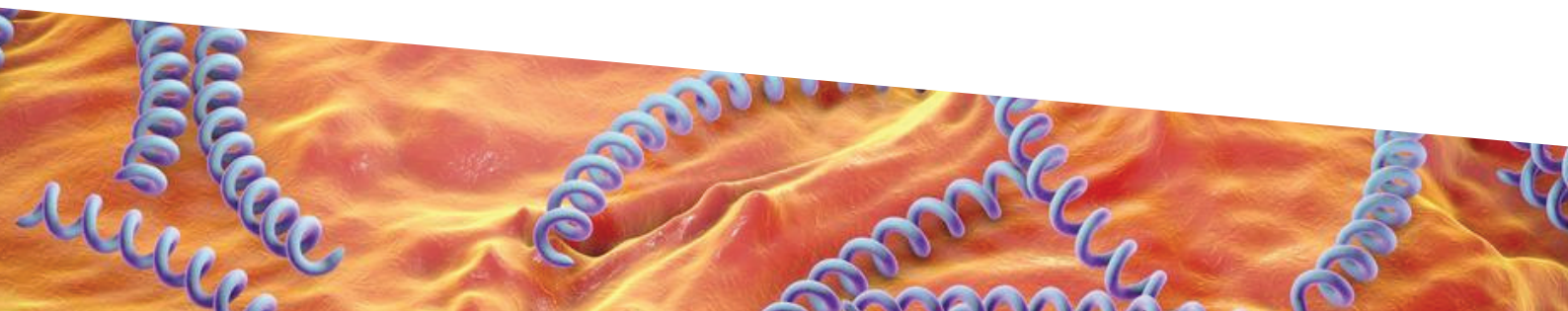


# Truenat<sup>®</sup> LTS

Chip-Based Real-Time  
PCR Test for Leptospira



CE



# A Silent Zoonosis, Often Detected Too Late

An under-recognised tropical threat affecting millions.

Leptospirosis is a zoonotic bacterial infection caused by pathogenic *Leptospira* species. Despite its widespread presence, leptospirosis remains significantly under-reported, particularly in tropical and subtropical regions where flooding, heavy rainfall, and poor sanitation accelerate transmission.



## High-Exposure Risk Groups



Agricultural & Livestock Workers



Sanitation & Sewage Workers



Flood-Affected Populations & Rescuers



Animal Care Professionals

In many endemic regions, leptospirosis is frequently misdiagnosed as dengue, malaria, or scrub typhus, especially during monsoon outbreaks. Severe cases can progress to renal and hepatic failure or pulmonary haemorrhage.

Leptospirosis is frequently mistaken for dengue and other febrile illnesses in endemic regions, particularly during monsoon outbreaks

Resulting in



Delayed antibiotics therapy



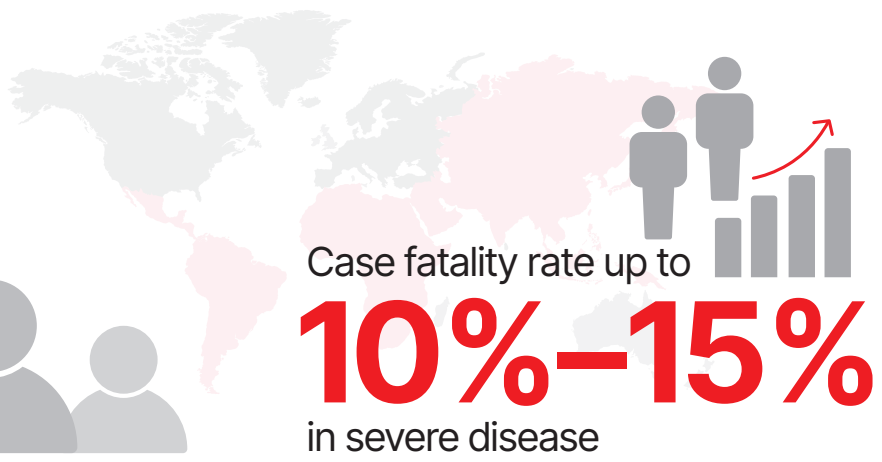
Increases risk of severe complications

**GLOBAL  
IMPACT**



**>1 million**  
Cases annually

**~60,000**  
Deaths per year



Highest incidence in—  
**Tropical Africa** **Asia** **Latin America**

(Source: WHO Leptospirosis Guidance; Costa et al., PLoS NTD (2015))

# THE DIAGNOSTIC CHALLENGE

Early diagnosis of leptospirosis is critical, as timely antibiotic treatment can significantly reduce severe complications and mortality.

## However, conventional methods fall short



Serological tests and IgM assays rely on antibody detection, and may remain negative in the first week



Testing by MAT (Microscopic Agglutination Test) is restricted to reference laboratories



Antibodies appear only after 5–7 days



Early-stage infections are often missed

RESULT →



Delayed Diagnosis



Delayed Treatment



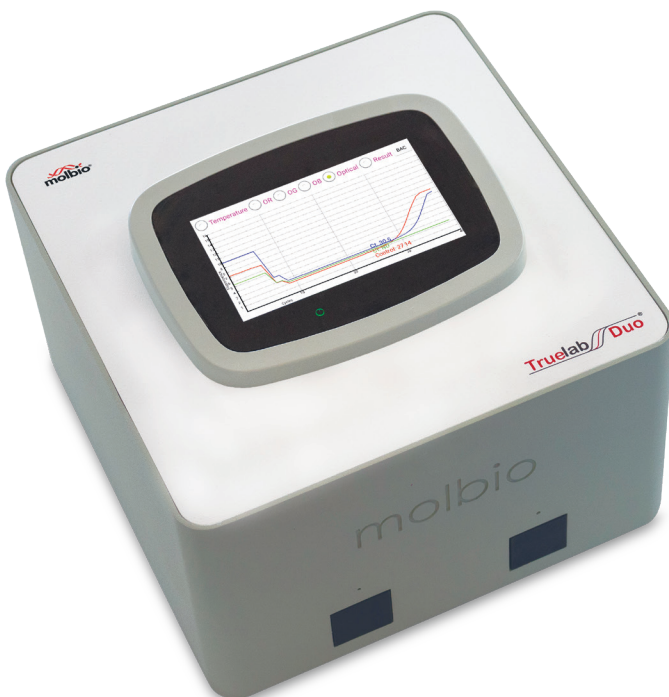
Increased Risk

(Source: WHO Human Leptospirosis Guidance; CDC Clinical Information)

## Bridge The Gap with Truenat<sup>®</sup> LTS

A chip-based real-time PCR assay designed for rapid detection of *Leptospira*, enabling accurate diagnosis even in the early stage of infection.

Built on the portable, WHO-endorsed Truenat platform, it supports decentralised testing closer to patients—helping clinicians confirm infection quickly, initiate timely antibiotic therapy, and improve clinical management during outbreaks.



Early antibody tests can be unreliable during the acute phase of infection. Molecular detection enables direct identification of *Leptospira* DNA—allowing diagnosis during the acute phase, when intervention matters most.

**It also helps in differentiation from similar febrile illnesses such as dengue or scrub typhus.**

# KEY FEATURES



**<1 hour turnaround time**



**Reagent stability**

Room temperature stable reagents



**User-friendly**

Requires minimal training



**Lyophilized, ready-to-use  
PCR reagents**



**Smart chip**

Replete with batch-specific data



**Minimal biosafety requirements**

Can be used even in resource limited settings

## ORDERING INFORMATION

Pack Size	5T	25T	50T
Cat. No.	601400005	601400025	601400050



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