# VIASURE Treponema pallidum Real Time PCR Detection Kit

# Pathogen and product description

he spirochete *Treponema pallidum* (Tp), the etiologic agent of syphilis, causes a multistage sexually transmitted infection (STI). Pathogenic treponemes cause venereal syphilis, yaws, endemic syphilis, and pinta-multistage, infections that, although similar, can be differentiated based on clinical, epidemiologic, and geographic criteria.

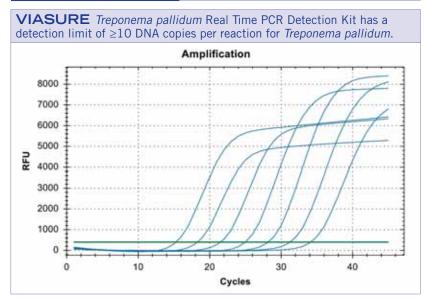
Only venereal syphilis is transmitted by sexual activity. The pathogenic treponemes are uncultivatable, slow-growing microorganisms with identical flat-wave morphologies. They poorly tolerate desiccation, elevated temperature, and ambient oxygen tension, traits that explain why efficient transmission requires close personal contact. Several types of laboratory test are available for diagnosis of *Treponema pallidum*. Serology, dark field microscopy and PCR are the gold standards to diagnose this pathogen. However, Real Time PCR assays have been shown to be a more sensitive and specific diagnosis tool for its detection.

VIASURE *Treponema pallidum* Real Time PCR Detection Kit is designed for the diagnosis of *Treponema pallidum* in urogenital samples. After DNA isolation, the identification of Treponema pallidum is performed by the amplification of a conserved region of the 16S rRNA gene for *Treponema pallidum*, using specific primers and a fluorescent–labelled probe.

## Treponema Pallidum Real Time PCR Detection Kit



## Analytical sensitivity



Dilution series of Treponema pallidum (10<sup>7</sup>-10<sup>1</sup> copies/rxn) template run on the Bio-Rad CFX96™ Real-Time PCR Detection System (channel FAM)

#### Components

Reagent/Material	Description	Colour	Quantity
<i>Treponema pallidum</i> 8-well strips	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	White	6/12 x 8-well strip
Rehydration Buffer	Solution to reconstitute the stabilized product	Blue	1 vial x 1,8 mL
<i>Treponema pallidum</i> Positive Control	Non-infectious synthetic lyophilized cDNA	Red	1 vial
Negative Control	Non template control	Violet	1 vial x 1 mL
Water RNAse/DNAse free	Water RNAse/DNAse free	White	1 vial x 1 mL
Tear-off 8-cap strips	Optical caps for sealing Wells during thermal cycling	Transparent	6/12 x 8-cap strip

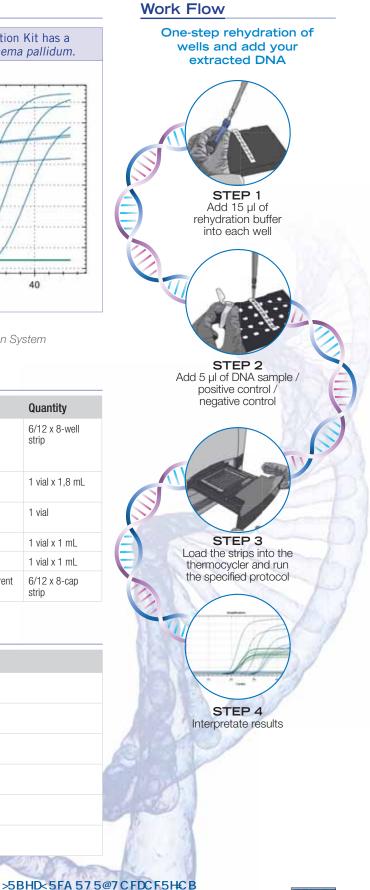
#### **Kit References**

Reference	Description
VS-TPA106L	Viasure <i>Treponema pallidum</i> Real Time PCR Detection Kit 6 x 8-well strips, low profile
VS-TPA106H	Viasure <i>Treponema pallidum</i> Real Time PCR Detection Kit 6 x 8-well strips, high profile
VS-TPA112L	Viasure <i>Treponema pallidum</i> Real Time PCR Detection Kit 12 x 8-well strips, low profile
VS-TPA112H	Viasure <i>Treponema pallidum</i> Real Time PCR Detection Kit 12 x 8-well strips, high profile
VS-TPA113L	Viasure <i>Treponema pallidum</i> Real Time PCR Detection Kit 96-well plate, low profile
VS-TPA113H	Viasure <i>Treponema pallidum</i> Real Time PCR Detection Kit 96-well plate, high profile

PHARMACAL

LABORATORY & POINT OF CARE DIAGNOSTICS

CORPORATION





9b₩]bcž755-%('\* HY`∴,\$\$"\*+\*"))\*) >**UbH8L.Wća** `` ]k

bZc4>Ubh8L'Wca

%) ' \$'J Ybhi fU'6'j X"žGi ]hY') %&

"W¢a