



TEM-PCR™ Technology

TEM-PCR (*Target Enriched Multiplex Polymerase Chain Reaction*) technology is a proprietary, multiplex amplification platform designed to overcome the challenges that exist with conventional laboratory methods.



DxRx *Linking Diagnostics to Therapeutics™*



Eurofins Diatherix Distinctions:

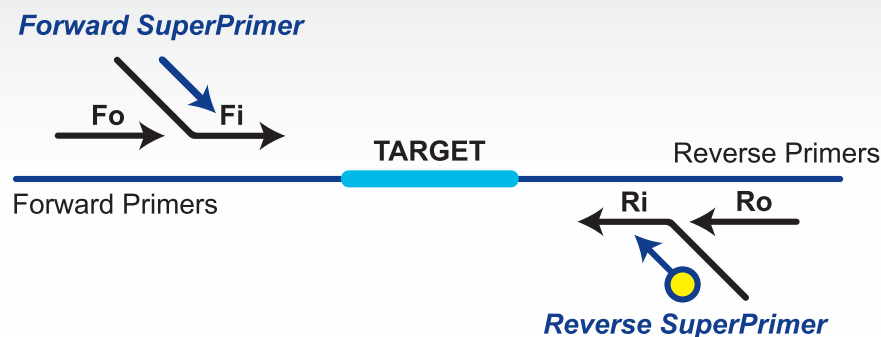
- *Delivers one-day results*
- *Identifies bacteria regardless of recent antibiotic use*
- *Offers simplicity of single-sample collection*
- *Identifies difficult-to-culture pathogens*
- *Yields a high level of sensitivity and specificity*

The Science of TEM-PCR:

TEM-PCR enables the identification of multiple molecular targets in a single, carefully optimized and controlled PCR reaction.

In the target enrichment step of TEM-PCR, low concentrations of nested primers facilitate target-specific amplification and a universal tag is applied to target-specific amplicons over the course of PCR amplification. SuperPrimers then use the universal tag on the resultant PCR products to simultaneously amplify all targets throughout the remaining cycles of PCR.

Development of Eurofins Diatherix TEM-PCR tests carefully follows the guidelines established by College of American Pathologists (CAP), CLIA, and the Clinical Laboratory Standards Institute (CLSI) for the validation of molecular testing technologies.



Nested target-specific primers are used during the initial target enrichment step. A pair of SuperPrimers are then applied to amplify all targets.¹



Accurate diagnostic results lead to better treatment for patients

TEM-PCR provides the ability to identify bacteria, viruses, parasites, Candida and antibiotic resistance from a single specimen in one day and allows the clinician to:

- *Withhold antibiotics in patients with viral detection*
- *Administer appropriate antibiotic and/or antiviral therapy*
- *Incorporate evidence-based medicine to enhance the quality and cost-effectiveness of patient care*

TEM-PCR – Fast, Accurate and Proven Results

TEM-PCR provides greater clinical value, reduces antibiotic utilization, improves patient outcomes, and lowers healthcare costs.

> 3.1 million TEM-PCR tests have been ordered since 2009.

> 68,431 healthcare providers have ordered TEM-PCR.

Test Menu

COVID-19
SARS-CoV-2

Flu *Plus*

Atypical Pneumonia

Bacterial Pneumonia

Ear Nose & Throat

VeriStrep

Influenza

Pediatric Respiratory

Pediatric Respiratory 8

Upper Respiratory

Viral Respiratory

Pharyngitis

Pharyngitis *Plus*

Respiratory Infection

Bacterial Vaginosis

Candidiasis

CT + NG + *Trichomonas*

Helicobacter pylori

Herpes Simplex Virus

HPV High Risk Typing

Sexually Transmitted Disease

Urinary Tract Infection

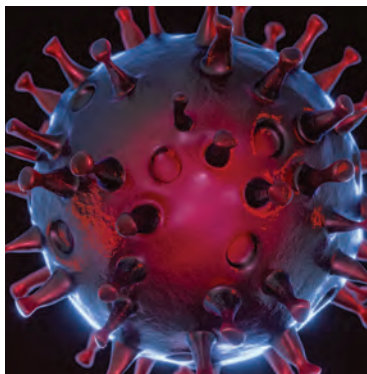
Infectious Disease

Skin and Soft Tissue Infection

Skin and Soft Tissue Infection *Plus*

Necrosis

Gastrointestinal



1. Multiple PCR in Molecular Differential diagnosis of microbial infections: methods, Utility and Platforms. J. Han, MD, PhD. In: *Advanced Techniques in Diagnostic Microbiology*, Springer, 2013, 627-647.