



Enabling prenatal management at the point of care

TORCH SCREENING

TORCH screening aims to control transmission of TORCH pathogens and assist doctors in initiating proper action, in particular to pregnant woman, as severe fetal damage and other serious complications can occur to newborns.

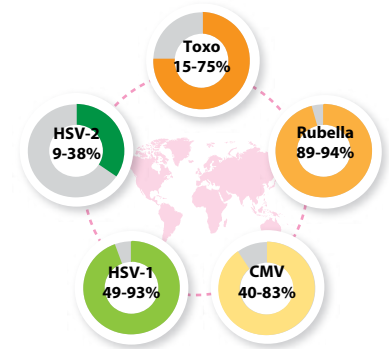
TORCH panel test is designed for pregnant women and women who are planning to become pregnant

Before pregnancy:

- Planning vaccination for rubella
- Proper arrangement of pet care
- Safe sexual conduct

During pregnancy:

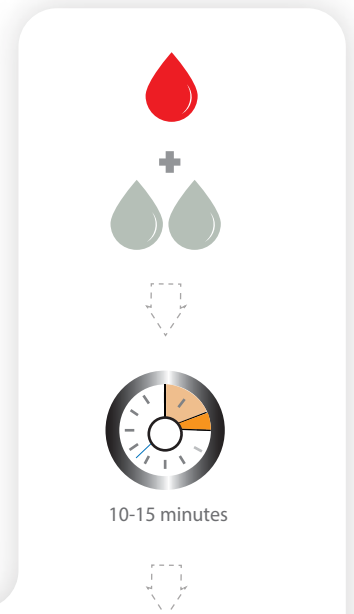
- Eliminating pathogen exposure
- Close monitoring of pregnancy
- Close monitoring of fetal development
- Proper delivery and neonatal strategy



Global seroprevalence of TORCH in childbearing women

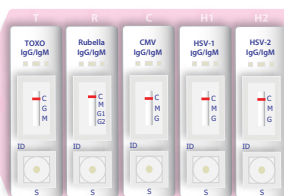
UNIQUE FEATURES OF TORCH PANEL RAPID TEST BY CTK

- **Multiplex POCT design**
 - 5 tests in 1 panel
 - 1 test procedure for 10 + 1 parameter results
 - detection and differentiation of both IgM and IgG in all 5 tests
- **Differentiate HSV-1 and HSV-2**
 - HSV-1 has been linked to Alzheimer's, HSV-2 infection increases risk of contracting HIV
 - Utilizes recombinant HSV-specific glycoprotein G1 and G2, as recommended by US CDC
- **Semi-quantitative results for Rubella**
Aids in diagnosis of all 4 infection status
 - no immunity
 - early infection
 - active infection
 - protective immunity
- **Whole blood compatible**
Allows for testing in various settings, such as
 - emergency
 - physician office without centrifuge
 - remote area without skilled lab technicians and stable electricity



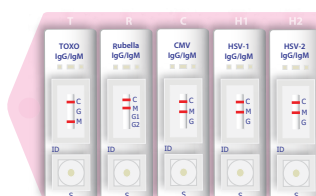
No infection

Negative



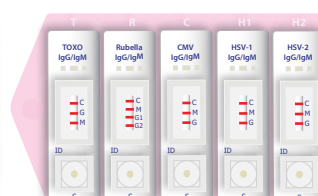
Current infection

IgM Positive



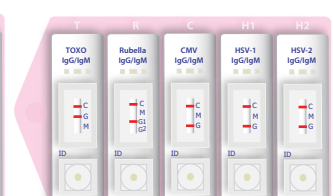
Recent infection

IgM & IgG Positive



Past/Chronic infection

IgG Positive



Protective immunity



OnSite ToRCH Panel & Individual Tests

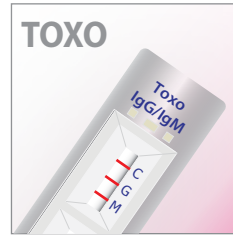


TORCH Panel Rapid Test ^{NEW}

R0253C Serum/Plasma/Whole blood

The most straight forward TORCH serology test on the market

Simple procedure to achieve comparable performance against leading ELISA kit as well as WHO calibrator



Toxo IgG/IgM Rapid Test

R0234C Serum/Plasma/Whole blood

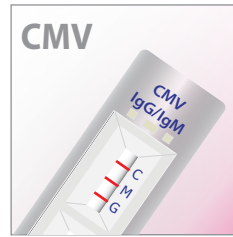
High risk to fetus when infected during or just before pregnancy



Rubella IgG/IgM Rapid Test ^{SEMI-QUANTITATIVE}

R0243C Serum/Plasma/Whole blood

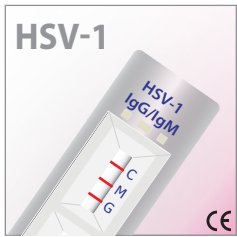
Rubella can be prevented by vaccination. IgG titer above 15 IU/mL in blood indicates protective immunity



CMV IgG/IgM Rapid Test ^{NEW}

R0224C Serum/Plasma/Whole blood

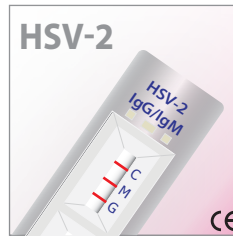
High risk of congenital infection when newly infected during the first half of pregnancy, usually in the first trimester



HSV-1 IgG/IgM Rapid Test ^{CE}

R0203C Serum/Plasma/Whole blood

HSV-1 in babies can cause low birth weight, miscarriage, and preterm birth



HSV-2 IgG/IgM Rapid Test ^{CE}

R0213C Serum/Plasma/Whole blood

HSV-2 is the most common herpes infection in newborn babies. In addition, HSV-2 infection increases the risk of contracting HIV

CLINICAL PERFORMANCE

Comparable performances against leading ELISA kits

Pathogen	IgM		IgG	
	Overall agreement	Reference	Overall agreement	Reference
Toxo	97.8%	Diapro	94.9%	Diapro
Rubella	96.0%	Abbott EIA	97.7%	Diapro
CMV	93.9%	Diapro	93.4%	Diapro
HSV-1	85.0%	Diapro	90.7%	Diapro
HSV-2	95.2%	Trinity Biotech	95.3%	Diapro

