

Test Significance

- ◆ Pre-pregnancy screening: Acute infections can be treated before pregnancy to improve population quality and help in eugenics
- ◆ Pregnancy screening: Monitor immune system of mother, combine with ultrasonography to determine if intervention or termination of pregnancy is needed
- ◆ Newborns: Provide evidence for newborn deformity

ToRCH infections during pregnancy can lead to intrauterine infection through the placenta, resulting in adverse consequences in fetus or baby

Toxoplasmosis gondii - Can be transmitted to fetus through the placenta resulting in death or deformity. Babies can display sequelae such as chorioretinitis and hydrocephaly

Rubella Virus - Rubella infections during early pregnancy can cause congenital rubella syndrome in fetus resulting in congenital heart diseases, cataract, neuroepithelial deafness, low IQ, intrauterine growth retardation and so on

Cytomegalovirus - The most common type of intrauterine infection. There is a 30-40% chance of transmission from mother to child resulting in growth and mental retardation, jaundice, microcephaly, hepatosplenomegaly, chorioretinitis, thrombocytopenia, and hemolytic anemia

Herpes Simplex Virus - Mainly transmitted via the birth canal, only 5% is transmitted through the placenta. Newborns with HSV display local or diffused infections on the skin, eyes, mouth, and central nervous system. Diffused infections has the worst prognosis



- 10 Analytes in 2 Assays
- More Accurate with Quantitative Detection
- 5x Speed with 80% Savings on Consumables

Tellgen Corporation, founded in 2003, is an in vitro diagnostics company located in the 'global research centre' Zhangjiang Hi-Technology Park in Shanghai, P.R. China. We are a listed company focusing on research and producing high-end IVD products. With our company's slogan "Deeper Understanding of Life", we aim to explore the scientific field of research and bring our research results to help aid in auxiliary diagnosis. We focus on early-stage tumor screening to provide diagnostic help, determination of personalized medicine, and the prediction of drug use.

Tellgen Corporation is the first to release the TESMI system, based on the high-throughput flow fluorescence multiplexed bead technology, leading a role in the IVD industry. Until now, we have different detection platforms covering immunology, molecular biology, biochemistry, mass spectrometry and more that uses technologies such as multiplexed bead flow fluorescence, chemiluminescence, multiplex-PCR, liquid chromatography tandem mass spectrometry and others. Our products range from full-course tumor monitoring, reproductive health detection, autoimmunity detection, infectious diseases detection, cardiovascular disease detection, and DNA methylation detection. We have innovative products such as tumor marker joint assay (first in China to release), the first CFDA-approved Y chromosomal microdeletion detection kit, and the first CFDA-approved SHOX2+RASSF1A DNA methylation detection kit for lung cancer screening.

We have a stable cooperation with Hitachi and collaborated to release the Hitachi-Tellgen compatible assembly line which offers high-throughput sample pre-treatment and biochemical analyzing system. With the addition of TESMI F4000 to this assembly line, we can achieve high-throughput target detection.

Tellgen insists to adhere to research and actively collaborates with companies from around the world to produce new innovative products and contribute to human health.

ToRCH Testing (10 Analytes) (Flow Fluorescence Methodology)

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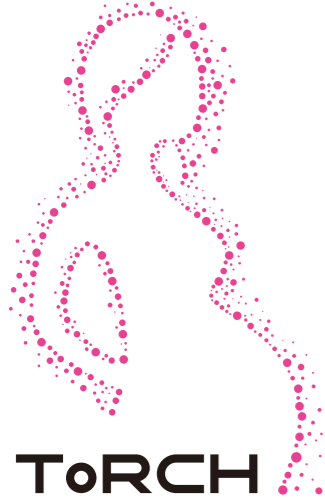


Official Website



WeChat Programme

ToRCH 10 Analyte Detection



ToRCH infection (also known as ToRCH syndrome) affects pregnant woman because pregnancy causes a change in the endocrine system and weakens the immune system. Infected individuals can also be potentially re-infected with the viruses when they get pregnant.

During an infection, especially in the early trimester, virus can be vertically transmitted via the placenta, resulting in developmental termination, miscarriage, premature delivery, congenital deformity, postnatal IQ development, paralysis, and a lifelong sequelae. Therefore, it is especially important to do check-ups and testing for viral antigens and antibodies before pregnancy and in early stages of pregnancy. This helps lower birth defects, aids in eugenics, and has clinical significance for evaluating habitual abortions.

Joint Detection

ToRCH IgG

- Toxo IgG
- Rubella IgG
- CMV IgG
- HSV-I IgG
- HSV-II IgG

ToRCH IgM

- Toxo IgM
- Rubella IgM
- CMV IgM
- HSV-I IgM
- HSV-II IgM

Result Determination

IgG	IgM	Result Interpretation
+	-	Previously infected or vaccinated and has generated immunity, baby has a small chance of infection
-	-	Individual is susceptible to infection and should get regular check-ups
+	+	Primary or secondary infection, recommended to get check-up or other testing after 2 weeks; If both antibodies remains positive, there is high risk of danger and should consult clinical doctors
-	+	Recently infected or acute infection; could also be a false positive due to interference If IgG becomes positive after 2 weeks, indicates an acute infection, or else a false positive

Product Highlights

Efficient

10 analytes in just 2 assays;
900 tests in 3 hours,
increasing testing speed by 3-5X

Quantitative

5 quantitative IgG results,
providing real-time monitoring
of IgG concentration for clinical
needs

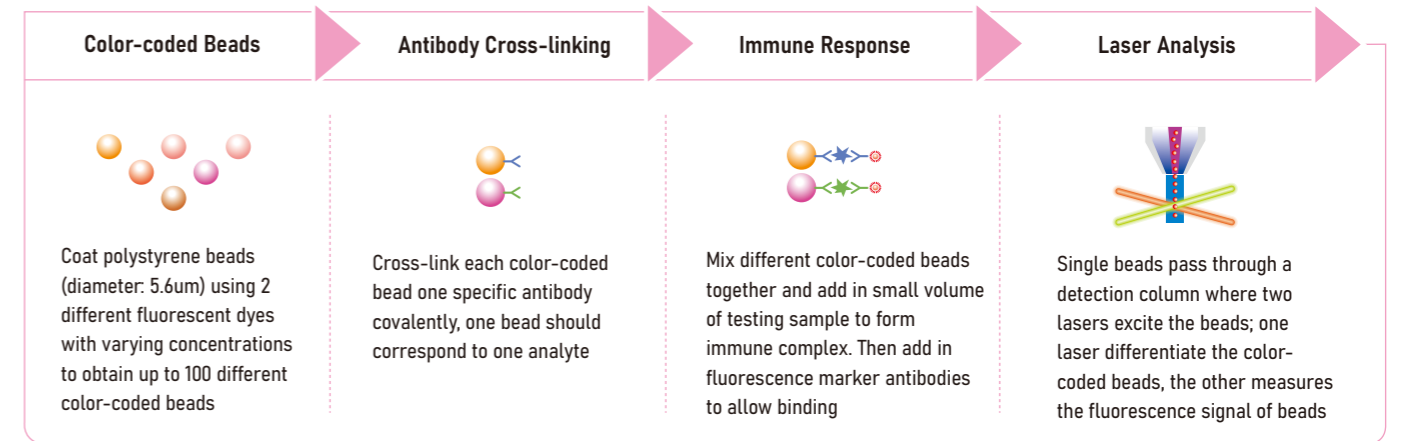
Convenient

Using TESMI, the high-throughput
immunoanalyzing system, we realize
fully automated flexible testing with
15 A&E slots

Economical

An 80% reduction in consumables
and sample volume (20ul), saving
space and reagent transportation
costs, eliminating medical anemia

Detection Principle



Product Specification



TESMI Series



ToRCH Testing Kit

- Compatible Instruments: TESMI Series; Luminex 200
- Sample Type: Human serum
- Specification: 100 tests/kit
- Storage Conditions: 2-8°C for 12 months