



S. Typhi IaM

Rapid S. Typhi IgM Test – Device

For In-Vitro Diagnostic Use Only

Store at 4°C to 30°C

1. OVERVIEW

Typhoid fever is a life-threatening infection caused by the bacterium Salmonella Typhi. That spreads through contaminated food and water. An estimated 11–20 million people get sick from typhoid and between 128 000 and 161 000 people die from it every year. Symptoms include prolonged fever, fatigue, headache, nausea, abdominal pain, and constipation or diarrhea. Some patients may have a rash. Severe cases may lead to serious complications or even death. Typhoid fever can be treated with antibiotics although increasing resistance to different types of antibiotics is making treatment more complicated.

2. INTENDED USE

Rapid S. Typhi IgM test is an immunochromatographic assay for the qualitative Detection of S. Typhi specific IgM antibodies in human serum/plasma or whole blood.

3. PRINCIPLE

After addition of the sample and the assay buffer to the sample well of the device containing a test strip, the sample moves on to the conjugate pad containing colloidal gold particles conjugated with Anti human IgM antibody and streptavidin. If the sample contains detectable levels of the S. Typhi specific IgM antibodies, it reacts with the colloidal gold particles conjugated with Anti human IgM antibody to form a complex. This complex moves further and S. Typhi specific IgM antibodies conjugate complex reacts with S. Typhi Antigen test line on the nitrocellulose membrane area to form colored band/s. The unbound complex and the Streptavidin conjugated colloidal gold particles move further to the Biotin coated control area to form a colored band (Control line). appearance of test line and control line in respective area indicates the positive result. Appearance of only control line indicates a negative result. The control line acts as a procedural control. Control line should always appear if the test is performed as per the procedure and reagents are working properly.

4. CONTENTS OF KIT

- 1. S. Typhi Test device
- 2. Assay Buffer
- 3. Package Insert

5. OPTIONAL MATERIAL REQUIRED

- 1.Timer
- 2. Sample container
- 3. Micro pipette
- 4. Disposable Gloves

6. PRECAUTIONS/KIT STORAGE AND STABILITY

- Please read all the information in this package insert before performing the test. Pay particular attention to the position of the Control and Test lines.
- 2.Do not use after the expiration date printed on the foil pouch.
- 3.Store in the sealed pouch in a dry place in between temperature 4°C to 30°C. Do not freeze.
- Do not use if pouch is torn or damaged.
- 5.Do not open the foil pouch until you are ready to start the test.
- 6.Keep out of the reach of children.

7. WARNINGS

- 1. Do not reuse the test device.
- 2. Follow the instruction to get accurate results.
- 3. Use appropriate personal protective equipment.
- 4. Dispose off hygienically in Biohazard waste.
- 5. Do not touch the membrane.

- Treat samples and used test as potentially infectious. Avoid contact with skin.
- 7. For in vitro diagnostic use. Not to be taken internally.
- 8.Do not eat the desiccant in the package.
- 9.Do not mix the specimen sample or interchange the different specimen.

8. SPECIMEN COLLECTION

Blood sample shall be collected in EDTA or heparin tube. Fresh fingerpick blood can also be used for testing.

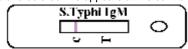
For serum, collect the blood sample in plain tube. Allow the blood to clot for few minutes. Centrifuge the tube and use supernatant as a serum sample. Testing should be performed as early as possible after collection. Do not leave samples at room temperature for prolonged periods.

9. TEST PROCEDURE

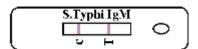
- 1.Allow the test device and sample reach to room temperature (20°C to 30°C) before opening the foil pouch.
- 2.Remove the test device, desiccant and plastic dropper from the pouch and use it as early as possible.
- 3.Put the device on plain surface and add 10 μ l of serum / plasma or 20 μ l whole blood sample in sample well and add 2 drops (Approx. 60 μ l) of assay buffer in sample well.
- 4. Start the timer.
- 5. Read the result at 15 minutes. Do not read the result after 20 minutes.

10. INTERPRETATION OF RESULTS

Negative: Only one colored line appears at the control line 'C' only

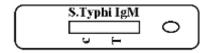


Positive: A distinct colored line appears at the control region 'C' and at the test line 'T'.

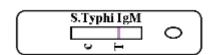


Invalid: The test should be considered invalid if,

A) no line appears at 'C' & 'T'



B) No line appears at 'C' and line appears at 'T'



NOTE: The intensity of the color of test lines will vary depending upon the levels of antibodies present in specimen.

PI/STM/01-21/VER-02 Page 1 of 2

11. LIMITATIONS

- 1. As with all diagnostic tests, the test result must always be correlated with clinical findings.
- 2. The results of test are to be interpreted within the epidemiological, clinical and therapeutic context.
- 3. Any modification to the above procedure and / or use of other reagents will invalidate the test procedure.

PERFORMANCE CHARACTERISTICS

- 1. Total 185 samples are evaluated for specificity, sensitivity. sensitivity was found 100% (60/60) and relative specificity was observed to be 100% (125/125).
- 2. The Positive predictive value (PPV) and Negative Predictive value (NPV) for the test was 100 %.
- No cross reactivity found with HIV, HCV, Dengue, HBsAg and syphilis Ab positive samples.
- 4. Lowest detection limit is observed up to 1:128 titre of positive sample.

Sample	ImmunoQuick S. Typhi IgM		Reference Kit		Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)
	Positive	Negative	Positive	Negative	(70)	(70)	(70)	(70)
Positive	60	0	60	0	100	-	100	-
Negative	0	100	0	100	-	100	-	100
Cross reactivity	0	25	0	25	No cross reactivity observed			
Total	60	125	60	100		-		

IVD	In Vitro Diagnostic Use			
	Manufacturer			
wl	Manufacturing Date			
53	Expiry Date			
LOT	Lot Number			
	Store at 4°C to 30°C			
②	Single Use			
Σ	Number of tests in the pack			
	Do not use if pouch or kit damaged			
<u> 11 </u>	This side Up			
[]i	Read package insert before use			



MANUFACTURED BY

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PI/STM/01-21/VER-02 Page 2 of 2