

# Ferritin Iron Deficiency Test

*Detects Deficiency Quickly & Easily*

*The Ferritin Rapid Test Cassette is a rapid test for the qualitative detection of ferritin in human fingerstick blood for iron deficiency anaemia.*

## SUMMARY

The Ferritin Rapid Test Cassette is a rapid chromatographic immunoassay for the qualitative detection of ferritin in human fingerstick blood at a cut off concentration of 30 ng/mL.

Testing ferritin levels indicates the levels of iron stored in your body.

Anaemia due to iron depletion can occur in children and women of all ages but mainly in women who still have their periods where at least 20% can suffer from iron deficiency.

The main symptoms are paleness, feeling tired, headaches, faster heartbeat, or shortness of breath during exercise.

These symptoms may appear gradually and could go unnoticed.

Iron deficiency occurs when blood does not contain enough red blood cells with low levels of haemoglobin, which is the major protein involved in oxygen transport in the body. An important component of haemoglobin is iron.

Low levels of iron, can happen while you are growing, if you have inadequate absorption in your body, are pregnant or are having blood loss due to periods, abnormal bleedings,

or ulcers. This can have a major impact on your health.

Low ferritin may also indicate hypothyroidism, vitamin C deficiency or celiac disease. Low ferritin levels are seen in some patients with restless legs syndrome.

## PRECAUTIONS

This test kit is intended to be used as a preliminary test only and repeatedly abnormal results should be discussed with doctor or medical professional.

**• Do not make any important medical decisions after taking the test without first referring to your doctor.**

- Read the Instructions carefully before performing the test.
- For external use only.
- For self-test in vitro diagnostic use only.
- Keep out of the reach of children.
- Do not drink any part of the test kit components
- After test is completed ensure all components of the test kit are disposed of safely
- Do not use after the expiry date or if the pouch is damaged.
- Follow the indicated time strictly.
- Use the test only once.

## STORAGE AND STABILITY

- Store as packaged at room temperature (2-30 degrees) in a cool dark place protected from light
- DO NOT FREEZE.
- Do not use beyond the expiration date. The test is stable through to the

expiration date printed on the sealed pouch.

- All components of the test must remain in their sealed pouches until use.

## MATERIALS PROVIDED

- Test cassette
- Capillary dropper
- Buffer
- Alcohol pad
- Lancet
- Instruction Leaflet

## PROCEDURE - HOW TO DO THE TEST

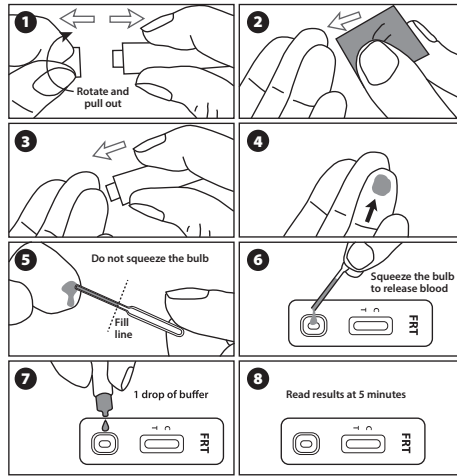
1. Wash your hands with soap and rinse with clear warm water.
2. Open the foil pouch and get out the Cassette-place on a flat surface.
3. Use the provided alcohol pad to clean the fingertip of the middle or ring finger as the puncture site.
4. Carefully twist and pull off and dispose the round cap of the lancet.
5. Press the lancet, against your fingertip on the side from where the cap was extracted. This will allow the lancet to pierce the skin. The tip of the lancet retracts automatically and safely after use.
6. Keeping your hand down massage the end of the finger to obtain a blood drop.
7. Without squeezing the capillary dropper bulb, put it in contact with the blood. The blood will migrate into the capillary dropper through the

capillarity to the line indicated on the capillary dropper. You may massage your finger to obtain more blood if the line is not reached.

8. Put the blood collected into the sample well marked 'S' of the cassette, by squeezing the dropper bulb.

9. Wait for all the blood to be in the well then unscrew the cap of the buffer bottle and add 1 drop of buffer into the same sample well of the cassette.

10. Wait for the coloured line(s) to appear. Read results at 5 minutes. Do not interpret the result after 10 minutes.



## INTERPRETATION OF RESULTS



**Normal:** Two coloured lines appear. Both the T (Test) and C (Control) lines appear. Even if there is a very faint line at T (test), then the test will indicate a normal level. This result means that the Ferritin concentration in blood is normal and that there is no potential iron deficiency.



**Abnormal:** One coloured line appears under the control line (C) only. This result means that the ferritin concentration in blood is too low. **You should consult your doctor because you may have an iron deficiency.**



**Invalid:** Control line fails to appear. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the procedure and repeat the test with a new test. If the problem persists, discontinue using the test kit immediately and contact your local distributor.

## EXTRA INFORMATION

### 1. When should the test be used?

The Ferritin Rapid Test Cassette can be performed in case of symptoms like paleness, feeling tired, headaches, faster heartbeat or shortness of breath during exercise.

For women, when pregnant or in case of excessive bleeding during periods.

The test can be performed anytime of the day, but should not be performed in case of disease, acute inflammation

or in case of spleen or liver injury as misleading abnormal results may result.

### 2. How does the ferritin test work?

An abnormal result means that the ferritin concentration in blood is lower than 30 ng/mL and a possible iron deficiency.

**3. Can the result be incorrect?** The results are accurate as long as the instructions are carefully followed.

### 4. What is the line that appears

**under the C (control) line?** When this line appears, it means that the test is working properly.

### 5. If I read the result after 10 minutes, will the result be reliable?

No. The result should be read at 5 minutes after adding the buffer. The result is not reliable after 10 minutes.

### 6. What do I have to do if the result is abnormal?

If the result is abnormal, it means that the ferritin level is lower than the normal (30 ng/mL) and that you should consult your doctor and show the test result to him/ her. Your doctor will then decide whether additional analysis should be performed.

### 7. What do I have to do if the result is normal?

If the result is normal, it means that the ferritin level is higher than 30 ng/mL and is within the normal range. However, if the symptoms persist, it is recommended to consult your doctor.

Who can I contact if I have more questions?

For further information or advice on using the **Professional Ferritin Iron Deficiency Test**, either contact the pharmacy you purchased the tests from **OR** contact **Smith Biomed (NZ) Ltd** by email to [info@smithbiomed.com](mailto:info@smithbiomed.com).

Index of Symbols		EC REP	Authorized Representative
	Consult instructions for use		Do not reuse
	For in vitro diagnostic use only		Do not reuse
	Store between 2-30°C		Catalog #
	Do not use if package is damaged		
	Tests per kit		
	Use by		
	Lot Number		
	Manufacturer		

**Manufactured by:**  
Hangzhou AllTest Biotech Co., Ltd  
550# Yintai Road  
Hangzhou, Zhejiang  
China 310018



EC REP  
**MedNet GmbH**  
Bismarckstr. 10  
48163 Muenster  
Germany