# TSH CHECK

Tired? Listless? Weight gain?

Rapid test for the detection of hypothyroidism

## INSTRUCTIONS FOR USE

### INTRODUCTION

of the metabolism. Malfunctions can there- fore performing the test. with influence the whole body. To detect hy- A step-by-step instruction is given on the per- or hypofunctions, in particular the level of **next page** and describes the test procedure. thyrotropin, the thyroid stimulating hormone (TSH) is a reliable indicator. TSH gets secreted by the pituitary gland and stimulates the To evaluate the test results, firstly you have to

The symptoms of a thyroid hypofunction in-pears. clude, amongst others, fatigue, listlessness, feeling of coldness, constipation, muscle POSITIVE TEST RESULT cramps or weight gain.

from 0.4  $\mu$ IU/ml to 4.5  $\mu$ IU/ml while a value **positive**. of >5  $\mu IU/mI$  indicates a thyroid hypofunc- This result indicates a TSH concentration in confirmed by a physician.

As an immunochromatographic rapid test for self-testing, TSH CHECK® detects an elevated TSH level in a sample of whole blood. If the TSH concentration is increased, it binds the antibodies immobilized on the test membrane. The visualization takes place through additional binding of colloidal gold labelled anti-TSH-antibodies that form a visible red test line (T-line).

Furthermore, the test includes a built-in control system realized by a red control line (Cof sample volume as well as a correct performance of the test.

performing the test

## **TEST CONTENTS**

- 1 test cassette (TSH, 5 μIU/ml) in a sealed
- 1 pipette
- 1 glass capillary tube in a protective container
- 1 solution bottle with sample dilution buffer 1 automatic lancing device with sterile lan

CE<sub>0120</sub> STERILE R

- cet for blood sampling Owen Mumford Ltd.

  Brook Hill, Woodstock
  Oxfordshire, OX20 1TU, UK
- 1 alcohol pad Paul Hartmann AG 89522 Heidenheim, Germany
- 1 plaster
- Paul Hartmann AG 89522 Heidenheim, Germany 1 instructions for use

### Additionally required:

• 1 timer

TEST PREPARATION

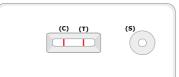
Warm test cassette and sample dilution buffer to room temperature (15 °C to 27 °C) before performing the test. Have a timer ready for time recording.

The thyroid plays a central role in the control Read the instructions for use completely be-

thyroid to produce the hormones T3 and T4. determine whether a line is present or absent Sensitivity: 96,43 % Specificity: 95,24 % Whenever the concentration of the thyroid at the control position (C). It does not matter Trueness: 93,10 % Accuracy: 95,71 % hormones T3 and T4 drops, TSH levels rise. how strong or faint the control line (C) ap-

If a faint red to dark red control line (C) is TSH CHECK® assesses whether TSH levels are visible in the result window along with a faint elevated. A normal TSH concentration ranges red to dark red test line (T), the test result is

tion. If the test shows a positive result, one your blood sample of more than 5 µIU/ml. It • Protect from direct sunlight, do not freeze. can assume that the TSH concentration is might indicate a hypofunction of the thyroid above normal values indicating a thyroid hy- (hypothyroidism). In case of a positive test re
• Do not use after the expiration date printed pofunction. The definitive diagnosis should be sult, we advise you to consult your physician.



If a faint red to dark red control line (C) but line). The C-line confirms a sufficient amount the result window, the test result is negative.

This result indicates a TSH concentration in An explanation of how to read and interpret  $\,$  your blood sample of less than 5  $\mu IU/mI.$  The the test result is given in the instructions for probability for a hypofunction of the thyroid use. Therefore, it is important to fully understand the entire instructions for use before symptoms or complaints, we advise you to consult a physician.



If there is no control line (C) or only a test line (T) visible in the result window, the test did not run correctly and the results are not valid.

Make sure that you carefully followed all the steps of the instructions for use. You should test again with a new blood sample and a new





70

42

### Reference Test Positive Negative Total 27 29 40 41 Negative

28

# ARNINGS AND IMPORTANT

- The test is intended for use outside the body Please contact the manufacturer for further
- Not to be taken internally. Avoid contact of range and supplementary literature. sample dilution buffer with skin and eyes.
- Keep out of reach of children.

Total

- Store in a dry place between 2 °C and 30 °C.
- on the package.
- · Not following the exact instructions can affect the outcome of the test. False-positive or false-negative results might occur in few cases. The definitive diagnosis must be confirmed by a physician.
- Do not use the test if the packaging is damaged. Do not use broken test components.
- All test components are only intended to be used for this test. Do not reuse the test or test components!
- The test should be performed immediately after opening the sealed pouch.
- Poor vision, color blindness or poor lightning may affect your ability to interpret the test correctly
- All test components can be disposed of in the household waste.
- Persons over 60 years old are likely to have an elevated TSH level without presence of hypothyroid symptoms. Please consult a physician for further evaluation.
- During pregnancy, TSH levels are likely to be elevated. If you detect a TSH value above 5 µIU/ml, we advise you to discuss the result with a physician.

# For self-testing

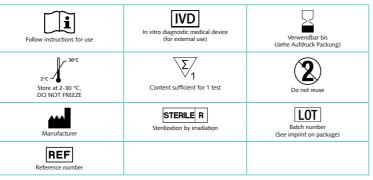
# IOLOGICAL REFERENCE RANGE AND

Normal TSH concentrations range from 0.4 μIU/ml to 4.5 μIU/ml, while a value of >5 μIU/ml indicates a hypofunction of the thyroid (hypothyroidism).

- 1. Biondi 2013-J Clin Endocrinol Metab, Sept, 98(9):3584-3587
- 2. Lewandowski 2015-Thyroid Research 2015 8(Suppl 1):A17
- 3. McNeil and Stanford 2015-Clin Biochem Rev 36 (4)

information regarding the biological reference

## **Explanation of symbols**



## REF: 780000



Instructions English Revision from 2018-02 (Rev. 01)



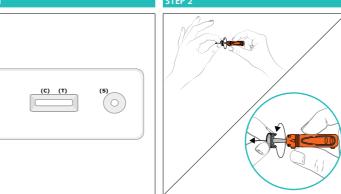


# TSH CHECK

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### STEP-BY-STEP INSTRUCTION



cassette. Lay it face up on a clean, dry and triggered once. flat surface.

Open the sealed pouch and remove the test Please note: The lancing device can only be Slowly massage your fingertip and clean it us-

device until the cap separates easily from the test result. lancing device body. Then twist it at least two more times before removing the cap. Otherwise, the proper function cannot be ensured.

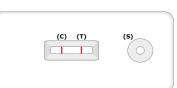


ing the alcohol pad. Wait until the fingertip is Twist the gray cap of the automatic lancing dry, as residual alcohol can interfere with the

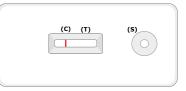
# For self-testing

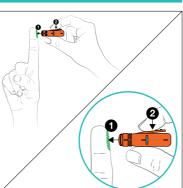
### **TEST RESULT**

# **POSITIVE**



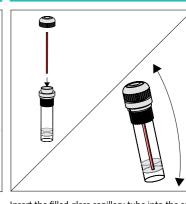
### **NEGATIVE**





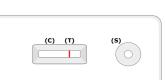
nuncture site

Press the automatic lancing device with Open the protective container and careful- Insert the filled glass capillary tube into the sothe round opening firmly against the clean ly remove the glass capillary tube. Squeeze a lution bottle with sample dilution buffer and fingertip 1 and activate it by pushing the drop of blood out of the fingertip. Hold the screw the cap back on tightly. Mix the conbutton ②. Massage the fingertip so a drop of glass capillary tube horizontally against the tent of the solution bottle by turning it genblood can form, without directly touching the drop of blood on the finger until it has com- tly upside down several times until the blood cording to your need.

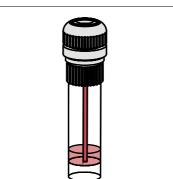


pletely filled up. Use the included plaster ac- from the glass capillary tube is mixed with the solution entirely

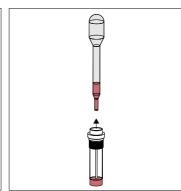
# INVALID (C) (T)



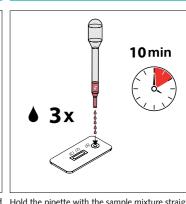
(S)



tion bottle. Only then unscrew the cap.



Before twisting off the cap, let the sample Insert the pipette into the solution bottle and Hold the pipette with the sample mixture straight mixture settle back to the bottom of the solu- draw up a few drops of the sample mixture.



over the test cassette and squeeze gently to add exactly 3 drops to the sample well (S). Please note, that there should be no liquid applied to the result window marked with the letters (T) and (C). Do not touch or move the test cassette after adding the drops to the sample well (S).

After adding the 3 drops to the sample well, read the result after 10 minutes. After more than 15 minutes false-positive results may occur.

We would be pleased to receive your feedback about our product. To do so, you are welcome to use the evaluation form on our

www.zuhausetest.de

Hotline: 0 64 21 - 95 14 49

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