

I. Identification

| Chemical name and synonyms: | not applicable |
|-----------------------------|---|
| Trade name and synonyms: | Free T4 kit (Ref: 24-03) |
| Chemical family: | In Vitro Diagnostic Test Kit (Reagents) |
| Formula: | not applicable |
| Proper DOT shipping name: | not applicable |
| DOT hazard classification: | not applicable |
| Manufacturer: | Astra Biotech GmbH |
| Manufacturer's Address: | Rudower Chaussee 29, |
| | 12489 Berlin, Germany |
| Manufacturer's phone/fax: | +49 (0)30 746 96 509/ +49 (0)30 367 405 135 |

II. Hazards Identification

Chemicals always may cause some special hazards. Therefore they should be handled by trained personnel with the necessary care.

III. Composition, Information on Ingredients

| Product: Free T ₄ kit | | | | | |
|----------------------------------|------------------------|---|---|--|--|
| Component | Preservative | Concentration of the hazard substations | Stability at +4°C | | |
| Microplate | Gentamicin sulphate | none | 12 months | | |
| Wash solution, concentrated | none | none | 12 months | | |
| Conjugate | Kathon MW | Kathon MW - 0.1%, active ingredients – 0.015% | 12 months | | |
| Substrate | none | 3,3',5,5'-tetramethylbenzidine - 1.2mM; Hydrogen superoxide – 3.0mM | 12 months | | |
| Stop-solution | none | 1M solution | 12 months | | |
| Calibrators, Control | Bronidox; Kathon MW | Kathon MW - 0.1%, active ingredients – 0.015% | 12 months (liquid); no more than 1 month after opening (reconstituted) | | |

Information on substances derived from tissues of human origin

| Substance | Description | Source (blood, serum, plasma, tissue, cells etc.) | Hazard/Biohazard | Treatment |
|--------------------------------------|--|---|---|--|
| T3, T4-free human serum, lipid | T3, T4-free human serum, lipid stripped, heat inactivated | Human Blood | Non reactive for HIV-1/2 (HIV) Antibody, HCV (2.0 or 3.0) Antibody, HTLV-1/2 Antibody, a Serologic Test for Syphilis (STS) and Hepatitis B Surface Antigen (HBsAG) | Heat inactivated for 30 minutes at 56°C |

IV. First Aid Measures

Symptoms of exposure:

CORROSIVE: Stop solution (1 M hydrochloric acid solution);

POSSIBLE MUTAGEN: TMB Substrate solution;

POSSIBLE IRRITANT: TMB Substrate solution, Conjugate, Calibrators 0-5, Control (Kathon MW - 0.1%, active ingredients – 0.015%).



In case of exposure to reagent solutions, we recommend the following emergency first-aid procedures:

- 1. Skin or Eye Contact: wash with tap water for at least 15 minutes. Remove any contaminated clothing. Obtain medical attention.
- 2. Inhalation: remove the affected individual to the fresh air. If breathing is difficult, give oxygen and call a physician.
- 3. Ingestion: rinse the mouth with copious amounts of tap water and call a physician.

V. Fire-fighting measures

Not applicable.

Usage of the reagents according to protocol should not incur a fire or explosion hazard. In case of fire, use water, foam, carbon dioxide or dry chemical, as suitable for surrounding fire and materials.

VI. Accidental Release Measures

Use standard laboratory absorbent materials for cleanup. Clean by enough water.

VII. Handling and storage

Hygienic Practice in Storage: store in a cool (+2...+8°C) and dry area away from direct sunlight and incompatible substances.

Hygienic Practice in Handling: handle all the samples and materials in contact with samples according to NCCLS guidelines for preventing transmission of blood-borne infections.

VIII. Exposure control and personnel protection

Eye Protection: recommended Skin Protection: recommended Respiratory Equipment: not applicable Good laboratory practices should be followed when handling all the reagents.

IX. Physical data

| pH: | Conjugate: | 7.4 | |
|-----|------------------|---------|---------|
| | TMB: | 3.65 | |
| | Stop solution: | <1.0 | |
| | Calibrators 0-5, | Control | 7.3±0.1 |

X. Stability and reactivity

TMB Substrate solution contains hydrogen peroxide which is an oxidizing agent. TMB and Kathon MW are irritants.

XI. Toxicological information

Hydrochloric acid: LD₅₀ (rat) 900 mg/kg body weight

XII. Ecological information:

Biological effects: Hydrochloric acid is toxic for water organisms by shift of PH value. LD_{50} 25 mg/L up.

XIII. Disposal consideration

Dispose in accordance with Local, State and Federal Regulations.

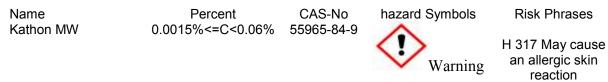
XIV. Transport Information

This product can be transported without any limitations. No regulations are to be applied.



XV. Regulatory Information

European Labeling according to Regulation (EC) No 1272/2008.



The following precautions should be observed:

- P261 Avoid breathing spray;
- P272 Contaminated work clothing should not be allowed out of the workplace;
- P280 Wear protective gloves/protective clothing/eye protection;
- P302+P352 IF ON SKIN: Wash with plenty of soap and water;
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention;
- P363 Wash contaminated clothing before reuse;
- P501 Dispose of contents/container in accordance with national regulation.

XVI. Other information

This product is designed and evaluated for the professional use by qualified laboratory staff. It has to be used only as *in vitro* diagnostic medical device.

XVII. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However we make no warranty of merchantability or any other warranty expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purpose. In no way shall the company be liable for any claims, losses or damages of any third party or for lost profits of any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.