 Atlas Medical	File Title: Product File.	Document Title: Material Safety Data Sheet.	Date Issued 02.04.2017
	Item Title: T3 Elisa kit, 96T/Kit	Item Code: 8.12.00.0.0096	Issue Level: 1.1


2. General Information.

Trade Names & Synonyms:	T3 Elisa kit, 96T/Kit
Chemical Family:	In Vitro Diagnostic Test kit (ELISA KITS).
Formula:	Not Applicable.
Manufacturer:	Atlas Medical.
Manufacturer's address:	William James House Cowley Road Cambridge, CB4 0WX, UK.
Manufacturer's phone:	+44 (0) 1223 858 910
Manufacturer's Fax:	+44 (0) 1223 858 524
Email:	info@atlas-site.co.uk

3. Composition, Information on Active Ingredients.


REAGENTS	INITIAL CONCENTRATION	CLASSIFICATION
STD 1 T3 1.0 mL		
T3	0 ng/mL	
Proclin300	0.20%	
Sodium azide	0.10%	
STD 2 T3 1.0 mL		NOT DANGEROUS
T3	0.5 ng/mL	
Proclin300	0.20%	
Sodium azide	0.10%	
STD 3 T3 1.0 mL		NOT DANGEROUS
T3	2 ng/mL	
Proclin300	0.20%	

PMX8.12.00.0.0096D.11	Issued for	Prepared by. QA	Reviewed by. QA	Approved by. QA	Page 2 of 7
	Date:	Date:	Date:	Date:	

 Atlas Medical	File Title: Product File.	Document Title: Material Safety Data Sheet.	Date Issued 02.04.2017
	Item Title: T3 Elisa kit, 96T/Kit	Item Code: 8.12.00.0.0096	Issue Level: 1.1

Sodium azide	0.10%	
STD 4 T3 1.0 mL		NOT
T3	5.0 ng/mL	
Proclin300	0.20%	
Sodium azide	0.10%	
STD 5 T3 1.0 mL		NOT DANGEROUS
T3	10 ng/mL	
Proclin300	0.20%	
Sodium azide	0.10%	
STD 6 T3 1.0 mL		NOT DANGEROUS
T3	20 ng/mL	
Proclin300	0.20%	
Sodium azide	0.10%	
ENZYME CONJUGATE		NOT DANGEROUS
Tris	0.05mol/L	
BSA	3%	
Proclin 300	0.2%	
Anti-T3	1:4000	
COATED MICROPLATE		NOT DANGEROUS
Coated with T3 structural analog		
Other ingredients		
TMB SUBSTRATE		NOT DANGEROUS
3,3',5,5'- tetramethylbenzidine	0.03%	
Hydrogen peroxide	0.015%	
Other ingredients		
WASH SOLUTION		NOT DANGEROUS
PBS	0.01M	
TWEEN 20	0.05%	

PMX8.12.00.0.0096D.11	Issued for	Prepared by. QA	Reviewed by. QA	Approved by. QA	Page 3 of 7
	Date:	Date:	Date:	Date:	

 Atlas Medical	File Title: Product File.	Document Title: Material Safety Data Sheet.	Date Issued 02.04.2017
	Item Title: T3 Elisa kit, 96T/Kit	Item Code: 8.12.00.0.0096	Issue Level: 1.1

STOP SOLUTION

Sulphuric Acid

1M

NOT
DANGEROUS

4. Hazard Information.

Classification of the substance or mixture

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3.

Label elements

Not a hazardous substance or mixture.

5. Health Hazard Data.

Sodium Azide:

- Spill: Not applicable.
- Exposure Controls: Not applicable.
- Personal Protection: Not applicable.
- Physical Properties: Not applicable.
- Stability/Reactivity: Stable. Non-reactive in this test.
- Toxicological Information: Exposure above acceptable limits may be harmful

6. Fire & Explosion Hazard Data.

Non-flammable

Using 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 the surrounding fire and materials.

7. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.


Environmental precautions

Environmental precautions: Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for cleaning up: Wipe up with absorbent material (e.g. cloth, fleece).

PMX8.12.00.0.0096D.11	Issued for	Prepared by. QA	Reviewed by. QA	Approved by. QA	Page 4 of 7
	Date:	Date:	Date:	Date:	

	File Title: Product File.	Document Title: Material Safety Data Sheet.	Date Issued 02.04.2017
	Item Title: T3 Elisa kit, 96T/Kit	Item Code: 8.12.00.0.0096	Issue Level: 1.1

Keep in suitable, closed containers for disposal

8. Handling and Storage.

Handling

Handling

No special requirements.

Conditions for safe storage

Storage

under cool conditions.

Store in tightly closed containers

9. Exposure control and personal gear.

Exposure controls

Eye protection: Safety glasses.

Hand protection: Protective gloves.

Wash hands before breaks and at the end of work. Skin and body protection

Protective Sui

Respiratory protection: No personal respiratory protective equipment normally required.


10. Physical and chemical properties.

General Information

Triiodothyronine (T3) is the hormone principally responsible for the development of the effects of the thyroid hormones on the various target organs. T3 (3,5,3'-triiodothyronine) is mainly formed extrathyroidally, particularly in the liver, by enzymatic 5'-deiodination of T4. Accordingly, the T3 concentration in serum is more a reflection of the functional state of the peripheral tissue than the secretory performance of the thyroid gland. A reduction in the conversion of T4 to T3 results in a decrease in the T3 concentration. It occurs under the influence of medicaments such as propranolol, glucocorticoids or amiodarone and in severe non-thyroidal illness (NTI), and is referred to as "low T3 syndrome". As with T4, over 99 % of T3 is bound to transport proteins. However, the affinity of T3 to them is around 10-fold lower.

The determination of T3 is utilized in the diagnosis of T3-hyperthyroidism, the detection of early stages of hyperthyroidism and for indicating a diagnosis of thyrotoxicosis factitia.(5, 6, 7) The ATLAS ENZYCODE T3 assay employs a competitive test principle with polyclonal antibodies specifically directed against T3. Endogenous T3, released by the action of 8-anilino-1-naphthalene sulfonic acid (ANS).

PMX8.12.00.0.0096D.11	Issued for	Prepared by. QA	Reviewed by. QA	Approved by. QA	Page 5 of 7
	Date:	Date:	Date:	Date:	

 Atlas Medical	File Title: Product File.	Document Title: Material Safety Data Sheet.	Date Issued 02.04.2017
	Item Title: T3 Elisa kit, 96T/Kit	Item Code: 8.12.00.0.0096	Issue Level: 1.1

Odor: Odorless.

Flash point: Not applicable.

Self-igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

11. Stability and Reactivity Data.

Stability: The product is stable in accordance with the recommended storage conditions.

Materials to be avoided: None.

Hazardous reactions: No dangerous reactions known.

Hazardous decomposition products: No dangerous decomposition products known.

These products should not be used if turbid, and should **not** be diluted. Stable until expiry date stated on the vial if stored according to manufacturers recommendation

12. Toxicological information.

Acute toxicity: Quantitative data on the toxic effects of this product is not available.

Primary effects:

After skin contact: No irritating effects known.

After eye contact: No irritating effects known.

Sensitization: No sensitizing effects known.

13. Ecological information.

Environmental Toxicity:

Quantitative data on the toxic effects of this product is not available.

Incorrect sample and used kit disposable:

Bio-hazards may exert cumulative environmental effects due to chemicals and biological materials present in the test kit.

14. Waste disposal information.

Product:

When disposing of reagents that contain Sodium azide, flush down the drain with copious amounts of tap water to prevent the build-up of explosive residues in the plumbing. As this reagent is of animal origin care must be taken during disposal, as there is a potential infection risk. Follow local and national guidelines

Packaging:


Disposal must be made in accordance with local waste management regulations.

Non-contaminated packaging materials may be recycled. Contact your local service providers for further information.

15. Transport information.

The product is not subject to transport regulations.

PMX8.12.00.0.0096D.11	Issued for	Prepared by. QA	Reviewed by. QA	Approved by. QA	Page 6 of 7
	Date:	Date:	Date:	Date:	

 Atlas Medical	File Title: Product File.	Document Title: Material Safety Data Sheet.	Date Issued 02.04.2017
	Item Title: T3 Elisa kit, 96T/Kit	Item Code: 8.12.00.0.0096	Issue Level: 1.1

Product should be shipped with ice pack. A label should be affixed to the outside of the package - "Refrigerate Upon Arrival".

16. Regulatory information.

NA.

17. Other information.

The product is for in-vitro use only.

18. Disclaimer.

The information above is believed to be accurate 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 or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

PMX8.12.00.0.0096D.11	Issued for Date:	Prepared by. QA Date:	Reviewed by. QA Date:	Approved by. QA Date:	Page 7 of 7
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