 Atlas Medical	File Title: Product File.	Document Title: Material Safety Data Sheet.	Date Issued 11.07.2018
	Item Title: Prolactin ELISA, 96T/Kit	Item Code: 8.10.05.x.xxxx	Issue Level: 1.0


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1. Amendment Record

Issue Level	Date Issued	Summary of Amendment	Reviewed by

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2. General Information.

Trade Names & Synonyms:	Prolactin 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.

Components	Main Ingredients	Classification
Coated Microplate	8 x 12 strips, 96 wells, pre-coated with mouse monoclonal Anti-Prolactin	Not Dangerous
Calibrators	6 white cap vials, 1 ml each, ready to use; Concentrations: 0(A), 5(B), 10(C), 20(D), 50(E) and 100(F) ng/mL.	Not Dangerous
Enzyme Conjugate	1 red cap vial, 11 mL of HRP (horseradish peroxidase) labeled mouse monoclonal Anti-prolactin in Tris-NaCl buffer containing BSA (bovine serum albumin). Contains 0.1% ProClin300® preservative.	Not Dangerous
Substrate	1 brown cap vial, 11ml, ready to use, (tetramethylbenzidine)TMB.	Not Dangerous
Stop Solution	1 yellow cap vial, 6.0 ml of 1 mol/L sulfuric acid.	Not Dangerous
Wash Solution Concentrate	1 transparent cap bottle, 25 ml (40X concentrated), PBS-Tween wash solution	Not Dangerous

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4. Hazard Information.

Hazard description:

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

5. Health Hazard Data.

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.

Health Hazards: Poison, Do Not Inhale or Swallow.
 First Aid Measures: Inhale: Remove to fresh air.
 Contact: Flush with water for 15 minutes.
 Swallow: If conscious, wash mouth out with water
 Call Physician.

8. Handling and Storage.

Information for safe handling:

Keep out of reach of children.

Storage:

Store in the original container at 2-8°C.

Requirements to be met by storerooms and receptacles:

No special requirements.

9. Exposure control and personal gear.

Ingredients with limit values that require monitoring in the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored in the workplace.

Personal protective equipment:


General protective and hygienic measures: Adhere to good laboratory practices (GLP).
 Wash hands before breaks and at the end of work.

Respiratory protection: Not required

Protection of hands: Disposable gloves.

Material of gloves: Latex/natural rubber.

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Penetration time of glove material: Glove resistance is not critical as the gloves are intended to provide protection against the sample material.

Eye protection: Not required

Body protection: Lab coat

10. Physical and chemical properties.

General Information

Prolactin is synthesized in the anterior pituitary and is secreted in episodes. The hormone is made up of 198 amino acids and has a molecular weight of approx. 22-23 kD. Prolactin appears in serum in three different forms. The biologically and immunologically active monomeric (“little”) form predominates (approx. 80 %), 5-20 % is present as the biologically inactive dimeric (“big”) form and 0.5-5 % is present as the tetrameric (“big-big”) form having low biological activity. The target organ for prolactin is the mammary gland, the development and differentiation of which is promoted by this hormone. High concentrations of prolactin have an inhibiting action on steroidogenesis of the ovaries and on hypophyseal gonadotropin production and secretion. During pregnancy the concentration of prolactin rises under the influence of elevated estrogen and progesterone production. The stimulating action of prolactin on the mammary gland leads post partum to lactation. Hyperprolactinemia (in men and women) is the main cause of fertility disorders. The determination of prolactin is utilized in the diagnosis of anovular cycles, hyperprolactinemic amenorrhea and galactorrhea, gynecomastia and azoospermia. Prolactin is also determined when breast cancer and pituitary tumors are suspected.

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.

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 manufacturer’s recommendation.

12. Toxicological information.

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

After skin contact: No irritating effects known.


After eye contact: No irritating effects known.

Sensitization: No sensitizing effects known.

13. Ecological information.

Environmental Toxicity:

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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, 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. Product should be shipped with ice pack.

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.

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