

MATERIAL SAFETY DATA SHEET
TECO[®] Human Leptin ELISA Kit

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Doc. No. TE1016

Date: 29/07/2008

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Section 1: Identification of the Substance
Intended use: Research Use Only. Not for use in diagnostic procedures.

Cat. No: See document number

Section 2: Composition and Information about Components

Component	Quantities	Remarks
1 Leptin Antibody Coated Microtiter Plate	1	-
2 Dilution Buffer	1 x 25 ml	Contains <0.01% 2-Methyl-4-isothiazolin-3-one <0.01% 2-methyl-2H-isothiazol-3-one <0.01% (w/w) 5-chloro-2-methyl 2H isothiazol-3-one
3 Antibody HRP Conjugate	1 x 12 ml	Contains Material from human origin <0.01% 2-Methyl-4-isothiazolin-3-one <0.01% 2-methyl-2H-isothiazol-3-one <0.01% (w/w) 5-chloro-2-methyl 2H isothiazol-3-one
4 TMB Substrate	1 x 12 ml	CAS# 54827-17-7, EC no. 264-769-6
5 Concentrated Wash Solution	1 x 50 ml	Contains <0.01% 2-methyl-2H-isothiazol-3-one <0.01% (w/w) 5-chloro-2-methyl 2H isothiazol-3-one
6 Stop Solution 0.2 M H ₂ SO ₄	1 x 12 ml	Contains sulfuric acid (1%), CAS# 7664-93-9, EC no. 231-639-5
A-E Standard A - E (1, 10, 30, 70, 100 ng/ml) lyophilized	5 x 0.75 ml	Contains Material from human origin
L Control 1 - lyophilized		
H Control 2 - lyophilized	2 x 0.5 ml	Contains material from human origin

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Section 3: Identification of Hazards

Component	Remarks
1 Leptin Antibody Coated Microtiter Plate	-
2 Dilution Buffer	-
3 Antibody HRP Conjugate	See remark A-E, L and H
4 TMB Substrate	-
5 Concentrated Wash Solution	-
6 Stop Solution 0.2 M H ₂ SO ₄	At concentration of 0.2 M, sulfuric acid (CAS: 7667-93-9) does not present any danger.
A-E Standard A - E (1, 10, 30, 70, 100 ng/ml) lyophilized	The substances of human origin that enter into the reagent's compositions were checked and found negative for HBs antigen and anti-HIV1, anti-HIV2 and anti-HCV antibodies. No test method can offer an absolute guarantee of the absence of HIV, hepatitis B and C viruses, and other infectious agents. Consider these reagents as potentially infectious.
L Control 1 - lyophilized	
H Control 2 - lyophilized	

Component	R-Rules	S-Rules
1 Leptin Antibody Coated Microtiter Plate	-	-
2 Dilution Buffer	R34, R36/38, R43	S26, S28, S36/37, S45
3 Antibody HRP Conjugate	R34, R36/38, R43	S26, S28, S36/37, S45
4 TMB Substrate	R20/21/22, R36/37/38	S26, S28, S36/37
5 Concentrated Wash Solution	R36/38, R43	S26, S28
6 Stop Solution 0.2 M H ₂ SO ₄	R36/38	S26, S28, S36/37
A-E Standard A - E (1, 10, 30, 70, 100 ng/ml) lyophilized	R34, R36/38, R43	S26, S28, S36/37, S45
L Control 1 - lyophilized	-	-
H Control 2 - lyophilized	-	-

Explanation of used rules:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
 R34 Cause Burns
 R36/38 Irritating to eyes and skin
 R36/37/38 Irritating to eyes, respiratory system and skin
 R43 May Cause Sensitization by skin contact

S26 In Case of contact with eyes, rinse immediately with plenty of water and seek medical advice
 S28 After contact with skin wash immediately with plenty of water and seek medical advice
 S36/37 Wear suitable protective clothing and gloves

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Section 4: First Aid Measures

Skin contact	Wash off skin thoroughly with water for at least 15 minutes. Remove contaminated clothing. In severe cases or if skin is broken, OBTAIN MEDICAL ATTENTION
Eye contact	Separate eyelids with fingers and flush eye with copious amounts of water for at least 15 minutes. OBTAIN MEDICAL ATTENTION
Inhalation	Remove from exposure, rest and keep warm. If breathing becomes difficult, OBTAIN MEDICAL ATTENTION
Ingestion	If patient is conscious, wash out mouth with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION

As a general rule, if an accident involving inhalation, skin contact, ingestion, or a cut occurs, consult a hospital emergency medical department immediately and show it this sheet.

Never try to get an unconscious person to swallow anything. If the person is unconscious, place her/him on her/his side in the standard safety position and wait for medical assistance. If breathing is irregular or stops, perform artificial respiration while waiting for medical assistance to arrive.

Reagents containing human material

Contact with skin: if the reagent comes in contact with healthy or injured skin (after a cut, puncture wound, or scrape), wash abundantly with soap and water, rinse thoroughly, and disinfect with a 1/10 dilution of 12% liquid bleach. Leave the disinfectant in contact for 5 minutes. Consult a hospital emergency medical department immediately.

Contact with eyes: rinse immediately with water, keeping the eyelids wide open for at least 15 minutes. Consult a doctor immediately and show him this sheet.

Ingestion: consult a hospital emergency medical department immediately.

Specific measures

Component	Remarks
1 Leptin Antibody Coated Microtiter Plate	-
2 Dilution Buffer	-
3 Antibody HRP Conjugate	-
4 TMB Substrate	Contact with skin: wash with soap and water. Contact with eyes: rinse immediately with water, keeping the eyelids wide open for at least 15 minutes. Consult a doctor immediately and show him this sheet. Ingestion: rinse the mouth with water. Have the person drink lots of water. Consult a hospital emergency medical department immediately.
5 Concentrated Wash Solution	-
6 Stop Solution 0.2 M H ₂ SO ₄	See (4) TMB Substrate
A-E Standard A - E (1, 10, 30, 70, 100 ng/ml) lyophilized	-
L Control 1 - lyophilized	-
H Control 2 - lyophilized	-

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Section 5: Fire Fight Measures

Extinguishing Media	Use carbon dioxide, dry chemical powder or appropriate foam. Do not use water.
SPECIAL RISKS	Strong dehydrating agent who may cause ignition of finely divided materials on contact. Emits toxic fumes under fire conditions Water reactive material (only applies to stop solution)
Special Fire Fighting Procedures	Wear self-contained breathing apparatus and protective clothing

Section 6: Accidental Release Measures

Individual precautions: see 8.

Environmental precautions: do not pour contaminated materials down the drain, dispose them in a rubbish bin for material of human origin. All wastes must be disposed of in conformity with the local regulations.

Cleaning methods:

Component	Remarks
1 Leptin Antibody Coated Microtiter Plate	-
2 Dilution Buffer	-
3 Antibody HRP Conjugate	Splashes on clothing: take off the contaminated clothing. Spills on equipment: clean with absorbent paper and liquid bleach. Treating solutions and equipment contaminated with material of human origin (whether reagents or samples) with liquid bleach at a final concentration of 5% sodium hypochlorite for 30 minutes inactivates HIV. Autoclaving at 121°C is the best procedure for inactivating hepatitis B virus. Do not autoclave materials that contain liquid bleach.
4 TMB Substrate	-
5 Concentrated Wash Solution	-
6 Stop Solution 0.2 M H ₂ SO ₄	-
A-E Standard A - E (1, 10, 30, 70, 100 ng/ml) lyophilized	See remark 3
L Control 1 - lyophilized	
H Control 2 - lyophilized	

Section 7: Handling and Storage

7.1 Storage

Close the reagent's containers well so that they are airtight. Observe the storage conditions mentioned on the labels. The shelf-life date and batch number are printed on the packaging. Keep the reagents in their original packaging and shipping containers until use.

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7.2 Handling

Handle the reagents of human origin as if they were potentially infectious. Wear disposable gloves, properly closed protective clothing, and protective goggles. Avoid all contact with the skin and eyes. Wash hands after handling all materials. Do not drink, eat, smoke, or apply make-up. Do not pipette with the mouth. Consult the instructions for use.

Section 8: Exposure Control / Personal Protection

As appropriate to the situation and quantity handled as follows.

Mechanical Controls	Local Exhaust
Skin and Body Protection	Laboratory Coat
Hand Protection	Chemical Resistant latex or vinyl gloves
Eye protection	Chemical Safety glasses with side shields
Other Equipment	Eye bath and Safety shower

Section 9: Physical Characteristics

Component	Characteristics
1 Leptin Antibody Coated Microtiter Plate	Plastic micotiter plate
2 Dilution Buffer	Orange/red liquid
3 Antibody HRP Conjugate	Orange/red liquid
4 TMB Substrate	Colorless liquid
5 Concentrated Wash Solution	Colorless liquid
6 Stop Solution 0.2 M H ₂ SO ₄	Colorless liquid
A-E Standard A - E (1, 10, 30, 70, 100 ng/ml) lyophilized	Colorless solid
L Control 1 - lyophilized	
H Control 2 - lyophilized	Colorless solid

Section 10: Stability and Reactivity

Stability	under normal conditions of storage and use the reagents are stable up to the shelf-life date indicated on the labels. All reagents must be stored in specified conditions (see label).
Dangerous reactions	Unknown
Materials to avoid	Do not allow water to enter the container and avoid contact with water. Strong oxidizing agents, metals. Avoid excess heat, flame, or pressure. Protect from direct UV light.
Dangerous decomposition products:	Nature of decomposition products not known

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Section 11: Toxicological

Component	Type of test	Route of Exposure	Species Observed	Dose Data
1 Leptin Antibody Coated Microtiter Plate	-	-	-	-
2 Dilution Buffer	-	-	-	-
3 Antibody HRP Conjugate	-	-	-	-
4 TMB Substrate	LD50 LD50	Intraperitoneal Oral	Rodent, Mouse Bird, Quail	135 mg/kg >316 mg/kg
5 Concentrated Wash Solution	-	-	-	-
6 Stop Solution 0.2 M H ₂ SO ₄	LD50 LC50	Oral Inhalation	Rat Rat	2140 mg/kg 510 mg/m ³ /2H
A-E Standard A - E (1, 10, 30, 70, 100 ng/ml) lyophilized	-	-	-	-
L Control 1 - lyophilized	-	-	-	-
H Control 2 - lyophilized	-	-	-	-

Symbol:  **Xn, Xi** Harmful, irritant

Section 12: Ecological Considerations

All reactives must be disposed of in conformity with existing local legislation. Due to small quantities of reactives, no effects have to be feared.

Section 13: Disposal Considerations

Waste residues: human origin wastes must be disposed of in conformity with existing local legislation.

Soiled packaging: dispose of in accordance with existing legislation. Contaminated containers must be treated the same way as the respective chemicals. Waste material packaging code (2001/118/EC): 15 01 10 (packaging containing of or contaminated by dangerous substances).

Section 14: Transport

Non-hazardous for road, rail and airfreight. Transport of this product should be carried out under the appropriate storage conditions (2 – 8°C) and all reagents contained within the packaging provided.

RID/ADR

Non-hazardous for road transport

IMDG

Non-hazardous for sea transport

IATA

Non-hazardous for air transport

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Council Directive 67/548/EEC and adaptations: classification, packaging and labelling of dangerous substances.

Commission Directive 91/155/EEC and adaptations: dangerous substances and preparations.

Section 16: Other informationGeneral Information

This information sheet completes but does not replace the kit instructions for use. The information is based on the state of knowledge about the product concerned. This information is given in good faith.

In no event does this information sheet dispense the user from knowing and applying all of the legislation that regulates his activity. The sole aim of all of the regulatory stipulations mentioned herein is to help the user to satisfy the obligations incumbent upon him when a dangerous product is used.

It is the responsibility of the purchaser to ensure that the test is used only by professional personnel and that the laboratory workers who use this product are aware of its hazards and take all necessary precautions to prevent contact, ingestion, inhalation or any other mode of exposure.

TECOmedical AG shall not be held liable for any damage or injury resulting from handling or from contact with the above product and assumes no responsibility to the accuracy or completeness of the data contained herein.

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