

MATERIAL SAFETY DATA SHEET

ADB Horse Serological Tapeworm ELISA Kit

(Complies with the requirements of regulation (EC) no. 1907/2006 (REACH), annex II)

FILE NO.: 002

MSDS DATE: 22/04/24

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 IDENTIFICATION OF THE SUBSTANCE OR PREPARATION

PRODUCT NAME: Horse Serum Tapeworm ELISA kit

COMPONENTS: Stripwell microplate pre-sensitised with equine tapeworm capture antigens
Calibrator stock solution
Antibody enzyme conjugate
TMB Substrate
Stop Solution

1.2. USE OF THE SUBSTANCE/PREPARATION

Enzyme immunoassay based on microtiter plate for the detection and quantitative determination of horse antibodies against tapeworm (*Anoplocephala perfoliata*) antigens in horse serum; *in-vitro* diagnostic.

1.3. COMPANY / UNDERTAKING IDENTIFICATION

Austin Davis Biologics Ltd
Units 5-8, Acorn Industrial Estate
Islip
Northants
NN14 3FD
Tel.: 01536 802942
EMAIL: info@austindavis.co.uk

EMERGENCY PHONE: For technical queries please contact 01536 802942 during office hours.
In case of an emergency contact local hospital.

SECTION 2: COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

None of the hazardous reagents are present in an amount that qualifies the products as hazardous according to Directive EC1272/2008.

However exposure to large amounts and/or ingestion can potentially be hazardous.

CLASSIFICATION:

Kit Component	Chemicals	Concentration in kit	CAS #	Classification (pure ingredient) according to Regulation EC1272/2008.	Classification (Kit component)
Stripwell microplate pre-sensitised with <i>Anoplocephala perfoliata</i> capture antigens	-	-	-	Not classified	N/A
Calibrator stock solution	Sodium citrate	5mM	6132-04-03	Not hazardous	N/A
	Sodium chloride	150mM	7647-14-5	Not hazardous	N/A
	Sodium azide	0.05%	26628-22-8	H300, H310, H330, H373, H400, H410	N/A
	5-Bromo-5-nitro-1,3-dioxane (BND)	0.05%	30007-47-7	H302, H315, H319, H335	N/A
	Equine IgG	250ug/ml	-	Not classified	N/A

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Anti-horse IgG(T):HRP antibody	Anti-horse IgG(T):HRP antibody in Phosphate Buffered Saline containing 0.2% Bovine serum albumin and 0.05% Pro-Clean 400	-	-	Not hazardous	N/A
TMB (Stabilized Chromogen)	3,3',5,5'-tetramethylbenzidine	-	-	Not hazardous	N/A
Stop Solution	Hydrochloric acid (32%)	3.2%	7647-01-0	H290, H314, H318, H335	N/A

For the full text of the Hazard Statements mentioned in this section, see Section 15

LABEL ELEMENTS: No single component contains a hazardous ingredient in an amount that requires labeling.

OTHER HAZARDS: Not applicable.

SECTION 3: FIRST AID MEASURES

GENERAL: Show this data sheet to physician or first aid responder.

EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes. Wash under the eyelid. Consult a physician if necessary.

SKIN CONTACT: Wash immediately with plenty of soap and water. Remove contaminated clothing. Consult a physician if necessary.

INGESTION: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

INHALATION: If breathed in move person into fresh air. If not breathing, give artificial respiration. Consult a physician if necessary.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: No special treatment. Treat symptomatically. In case of ingestion or inhalation of larger amounts consult toxicologist.

To the best of our knowledge, chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 4: FIRE-FIGHTING MEASURES

SPECIAL FIRE FIGHTING PROCEDURES: Wear appropriate personal protective equipment. Wear pressure operated full-face respirator.

UNUSUAL FIRE AND EXPLOSION HAZARDS: No data available.

HAZARDOUS COMPOSITION PRODUCTS: Carbon oxides, nitrogen oxides, sulphur oxides, unknown compounds.

SUITABLE EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use water jet.

SECTION 5: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Wear personal protective equipment. Avoid breathing vapour or mist. Ensure adequate ventilation. Follow general laboratory safety rules.

ENVIRONMENTAL PRECAUTIONS: Do not let product enter drains. Avoid spreading of spilled material.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Pick up and arrange disposal without creating aerosols. Keep in suitable, closed containers for disposal. In case of liquids, swab with cloth or absorb with an inert dry material and dispose in an appropriate manner.

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REFERENCE TO OTHER SECTIONS: For disposal see section 13.

SECTION 6: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Only for laboratory use. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Wash hands thoroughly after use. Keep away from sources of ignition - No smoking.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store in cool place. Keep containers tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Recommended storage temperature: As stipulated in product instructions.

SPECIFIC END USE(S): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 7: EXPOSURE CONTROLS/PERSONAL PROTECTION

Tapeworm protein coated microplate strips	Not applicable
Calibrator stock solution	Not applicable
Antibody enzyme conjugate	Not applicable
TMB	Not applicable
Stop solution	Not applicable

EXPOSURE CONTROLS

Appropriate controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. No special ventilation procedures. Common ventilation should be sufficient to limit exposure of employees.

PERSONAL PROTECTIVE EQUIPMENT

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves according to specifications of directive 89/686/EC and the resulting standard EN 374. Time of penetration of the glove material: permeation level>6. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Wear a closed lab coat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU) if exposure limits are exceeded or other symptoms are experienced.

SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Physical state:

Tapeworm protein coated microplate strips	Solid
Calibrator stock solution	Liquid
Antibody enzyme conjugate	Liquid
TMB	Liquid
Stop solution	Liquid

Colour:

Tapeworm protein coated microplate strips	N/A
Calibrator stock solution	Clear
Antibody enzyme conjugate	Clear
TMB	Clear
Stop solution	Clear

No available data: pH, boiling point, melting point, solubility, vapour pressure, flash point, vapour density, flammability, explosion limits, ignition temperatures, viscosity, relative density, oxidizing properties, partition coefficient – octanol:water, decomposition temperature.

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SECTION 9: STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Components of the product are stable under the specified storage conditions with no degradation or polymerization.

MATERIALS TO AVOID: When handled according to the intended use, no hazardous reactions are to be expected.

DANGEROUS DECOMPOSITION PRODUCTS: Under the specified storage and handling conditions, no dangerous decomposition products are formed.

POSSIBILITY OF HAZARDOUS REACTION: Note that Stop Solution contains hydrochloric acid (HCl) and has a corrosive effect.

SECTION 10: TOXICOLOGICAL INFORMATION

Because of the small size of the containers and the low concentrations of hazardous ingredients, the toxicological risks are minor.

Toxicological experiments have not been done on the kit components.

INHALATION: May be harmful if inhaled.

INGESTION: Harmful if swallowed.

SKIN CONTACT: May be harmful if absorbed through the skin.

EYE CONTACT: May cause eye burns.

Further information of the components to chronic toxicity, carcinogenicity, mutagenicity, teratogenicity or reproductive toxicity is not available.

SECTION 11: ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Quantitative data to the ecological effects of the product are not available.

WATER HAZARD CLASS: Not classified.

SECTION 12: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Consider all national environmental protection requirements and waste disposal laws as well as local rules. Avoid spreading of spilled material through contact with soil, water courses, drains or canalization. Contact a licensed professional waste disposal service to dispose of materials.

SECTION 13: TRANSPORT INFORMATION

This product is not subject to the rules of the following traffic systems:

Street traffic: ADR

Rail traffic: RID

Sea traffic: IMDG

Air traffic: ICAO/IATA

SECTION 14: REGULATORY INFORMATION

IDENTIFICATION ACCORDING TO EUROPEAN DIRECTIVES: No single component contains a hazardous ingredient in an amount that requires identification and labeling according to EC directives.

P-STATEMENT: P281 - Use personal protective equipment as required.

SECTION 15: OTHER INFORMATION

COMPLETE TEXT OF THE HAZARD AND PRECAUTIONARY STATEMENTS IN THIS DOCUMENT

P281 – Use personal protective equipment as required

H300 – Fatal if swallowed

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H310 – Fatal in contact with skin

H330 – Fatal if inhaled

H373 – May cause damage to organs through prolonged or repeated exposure

H400 – Very toxic to aquatic life

H410 – Very toxic to aquatic life with long lasting effects

H302 – Harmful if swallowed

H315 – Causes skin irritation

H319 – Causes serious eye irritation

H335 – May cause respiratory irritation

H290 – May be corrosive to metals

H314 – Causes severe skin burns and eye damage

H318 – Causes serious eye damage

DOCUMENT HISTORY: Version 1

DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information, data, and recommendations contained herein have been compiled from sources believed to be reliable and are believed to be accurate. Austin Davis Biologics Ltd makes no warranty of any kind whatsoever with respect thereto and disclaims all liability from reliance thereon. This information is offered solely to you in advisement for the safe use and handling of this material. Austin Davis Biologics Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.

End of Safety Data Sheet