



MATERIAL SAFETY DATA SHEET

Section 1: IDENTIFICATION

Name: HBeAg Elisa

Manufacturer: AMS U.K Ltd., Ballymena Business Centre, Galgorm, Co.Antrim, BT42 1FL, +44(0)28 25656868

Description: This kit is intended for the qualitative estimation of the envelope antigen of Hepatitis B Virus.

Cat No. : EIAHE01

KIT COMPONENTS AND CHEMICAL TOXICITY

Components of the kit	Format	Hazardous Chemicals	CAS#	Pages	EU R&S-paragraphs
MICROWELL PLATE	1x96well	none			
POSITIVE/NEGATIVE CONTROLS	2x1.0ml	ProClin™ 300 (0.1%)	N/A	5-7	R43, S28-37
HRP-CONJUGATE REAGENT	2x6.5ml	ProClin™ 300 (0.1%)	N/A	5-7	R43, S28-37
STOCK WASH BUFFER	1x30ml	Tween 20™ (0.2%)	9005-64-5	8-10	R1, S1
CHROMOGEN SOLUTION B	1x7ml	TMB solution (0.1%)	54827-17-7	11-13	R20/21/22, S 26-36/33/6/37/38/40
CHROMOGEN SOLUTION A	1x7ml	Hydrogen peroxide (0.1%)	7722-84-1	11-13	R34, S 3-28-36/39-45
STOP SOLUTION	1x7ml	Sulfuric Acid	7664-93-9	2-4	R34, S36-37, S39 S24, S25

BIOLOGICAL SAFETY

Antibody: monoclonal and polyclonal antibodies to hepatitis B virus E antigen (anti-HBe)

Infectivity: none

Human origin materials:

Positive control:

Materials from human origin have been used in the preparation of the Positive Control of the kit. These materials have been tested and found negative for antibodies to HCV, HBsAg, TP and HIV 1+2.

Antigen: Recombinant HBeAg

Infectivity: none

Negative control:

Materials from human origin have been used in the preparation of the Negative Control of the kit. These materials have been tested and found negative for antibodies to HCV, HIV ½, TP and HBeAg and HBsAg.

Bovine origin materials:

for stabilization of controls and HRP-Conjugate reagent, sera bovine serum albumin (BSA) and fetal calf sera (FCS) are used; these products are derived from animals from geographical areas known to be BSE-free.

SECTION 1. IDENTIFICATION OF SUBSTANCES /PREPARATION

Component name: Stop solution

Catalog No.: N/A

Application: Stopping solution in AMS HBeAg ELISA

Hazardous component: Sulfuric Acid (H₂SO₄) Water Solution

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Aqueous solution C; 35

Hazardous ingredients:

CAS# 7664-93-9 2 Molar Sulfuric acid

SECTION 3. HAZARD IDENTIFICATION



C Corrosive (not indicated on reagent label)

R34 Cause burns

SECTION 4. FIRST AID MEASURES

- **After inhalation** In case of unconsciousness place patient stably in side position for transportation
- **After skin contact** Immediately wash with water and soap and rinse thoroughly
- **After eye contact** Rinse opened eye for several minutes under running water
- **After swallowing** Drink plenty of water and provide fresh air. Call for a doctor immediately

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Non-applicable extinguishing media: Undetermined

Special exposure hazards arising from the substance or preparation itself: Undetermined

Special protective equipment for fire fighters. Not required

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

- Prevent seepage into sewage system, work pits and cellars. Dilute with plenty of water.
- Do not allow entering sewers/ surface or ground water.

Measures for cleaning

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Use neutralizing agent.
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.

SECTION 7. HANDLING AND STORAGE

Handling: Cannot be stored indefinitely

Information for safe handling, fire, and explosion protection: No special measures required

**Storage:****Requirements to be met by storerooms and receptacles:** Store in cool, well-ventilated location, away from any area where fire hazard may be present.**Information about storage in one common storage facility:** Store separately from incompatible materials.**Common storage facility:** Not special requirements**Further information about storage conditions:** Keep vials tightly closed. Protect against physical damage.**Storage class and class according to regulation on flammable liquids:** Void**SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION****Additional information about design of technical facilities:****Ingredients with limit values that require monitoring at the workplace:**

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

Additional information: The lists valid during the making were used as basis**Personal protective equipment S36, S37, S39****General protective and hygienic measures**

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work

Avoid contact with the eyes **S25** and skin **S24****Respiratory protection:** Not required**Hand protection:** S37 required**Eye protection:** S39 required**SECTION 9. IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION****Form:** liquid**Color:** Colorless**Flash point:** N/A**Oxidizing properties:****Explosivity:** N/A**Boiling point:** N/A**Self-igniting:** Not self igniting.**Relative density:** N/A**Solvent content:** Organic solvents 0 %**Odor:** Odourless**Vapor pressure:** N/A**Evaporation rate:** N/A**Melting point:** N/A**Danger of explosion:** No explosion hazard.**Solubility in Water:** Totally miscible**PH:** 0.5**SECTION 10. STABILITY AND REACTIVITY****Thermal decomposition:** If used according to specifications the reagent will not decompose**Conditions to be avoided:****Dangerous reactions:** No dangerous reactions known**Dangerous decomposition products:** No dangerous decomposition products known**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity:****Primary irritant effect:**➤ **On the skin:** Caustic effect on skin and mucous membranes.➤ **On the eye:** Strong caustic effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

The product shows the following dangers:

Corrosive - Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity:** N/A**Mobility:** N/A**Persistence and degradability:****Bioaccumulative potential****Others:** Hazardous for water

Danger to drinking water if even small quantities leak into the ground. Should not be allowed to reach ground water, water route or sewage system undiluted or unneutralized.

SECTION 13. DISPOSAL CONSIDERATIONS**Recommendation** Smaller quantities can be disposed of with household waste.**Uncleaned packaging:** N/A**Recommended cleansing agents:** Water, if necessary together with cleansing agents.**SECTION 14. TRANSPORT INFORMATION****Land Transport ADR/RID**

Shipping name: Sulfuric Acid Water Solution as Stop solution in AMS HBeAg ELISA

Packaging group: II

Classification: R34

Maritime Transport IMDG/GGVSee

Shipping name: Sulfuric Acid Water Solution as Stop solution in AMS HBeAg ELISA

Packaging group: II

Classification: R34

EmS: 8-06

Marine pollutant: No

Air Transport ICAO/IATA

Shipping name: Sulfuric Acid Water Solution as Stop solution in AMS HBeAg ELISA

Packaging group: II

Classification: R34

SECTION 15. REGULATIONS**Code letter and hazard designation of product:** N/A**Risk phrases:** R34 Causes burns.**Safety phrases:**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60 This material and its container must be disposed of as hazardous waste.

Water hazard class: hazardous for water.**SECTION 16. OTHERS**

This information is based on our present state of knowledge and according to the internationally and domestically available literature. However, this MSDS shall not be used as a warranty for any specific product features. The MSDS is not a legally valid contractual relationship.