



**Oxidized LDL (Ab) ELISA
Material Safety Data Sheet**

Catalog Number: 04-BI-20032

For Research Use Only. Not For Use In Diagnostic Procedures.

ALPCO Diagnostics

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SAFETY DATA SHEET

1. Identification of product and company

Product Name: **oLAB IgG ELISA 96t**

Catalogue Nr.: **BI-20032**

Normal use: See labeling.

Company: BIOMEDICA MEDIZINPRODUKTE GmbH & Co KG., Divischgasse 4,
 A-1210 Vienna, Austria
 Tel. +43/1/291 07 41, Fax +43/1/291 07 85

2. General preferences

All reagents sold by BIOMEDICA must be handled only by qualified laboratory personal. All preservative substances used in our products are there in too low concentrations to constitute any danger and standard laboratory precautions should suffice for effective protection.

Nonetheless, in the case of unusual exposure, the form(s), furnished in the appendix, provoke(s) all the necessary information.

3. Specific form(s)

The following are hazardous substances present in this product:

Hazardous substance: Human serum	Material Safety Data Sheet: 7
Reference of vials containing this substance	Quantity of hazardous substance:
Standards (vial ID: 7S)	100%
Controls (vial ID: 7C)	100%
Hazardous substance: TMB substrate	Material Safety Data Sheet: 5
Reference of vials containing this substance	Quantity of hazardous substance:
Substrate (vial ID: TMB)	<5%
Hazardous substance: Sulfuric acid (H₂SO₄)	Material Safety Data Sheet: 3
Reference of vials containing this substance	Quantity of hazardous substance:
Stop solution (vial ID: POT)	<10%
Hazardous substance: BSA	Material Safety Data Sheet: 8
Reference of vials containing this substance	Quantity of hazardous substance:
Conjugate (vial ID: 7K)	0.5 %
Assaybuffer (vial ID: 7P)	1%

This information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. BIOMEDICA shall not be held liable for any damage resulting from handling and from contact with the above product.

Enclosed are the specific safety data sheets (as applicable).

2006-09-18

SHEET 7

Hazardous Substance
Safety Data Sheet

Human Serum

SECTION 1. IDENTIFICATION OF SUBSTANCE AND COMPANY.

Product Name HUMAN SERUM

Manufacturer/Supplier: BIOMEDICA MEDIZINPRODUKTE GmbH & Co KG,
A-1210 Vienna, Divischgasse 4, Austria,

Technical service: Tel: +43/1/291 07 41, Fax +43/1/291 07 85

SECTION 2. COMPOSITION INFORMATION.

Chemical Characterization: Plasma of Human Origin

Hazardous Ingredients: None

SECTION 3. HAZARD IDENTIFICATION.

Handling: Use good laboratory practice. Handle material as potentially infectious

SECTION 4. FIRST AID PROCEDURES.

INGESTION: for small amounts, rinse mouth with water provided person is conscious. Consult with a physician

SKIN: Wash affected area with anti-microbial soap and water, rinse with water. Remove and wash contaminated clothing.

EYES: Flush with copious amounts of water or eyewash saline for at least 15 minutes. Consult with a physician if irritation occurs.

INHALATION: Remove to fresh air; if not breathing, give artificial respiration.

SECTION 5. FIRE FIGHTING MEASURES.

No special procedures/media required.

SECTION 6. ACCIDENTAL RELEASE MEASURES.

Wear appropriate protective clothing. Cover with adsorbent; wash area thoroughly.

SECTION 7. HANDLING AND STORAGE.

HANDLING

Wash hands after working with substance.

STORAGE

Conditions of storage: Keep tightly closed. Store at or below: -20 °C.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

Wear latex or vinyl gloves, a laboratory coat and safety glasses during use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES.

Slightly turbid, yellow to brown coloured frozen liquid, no detectable odour.

SECTION 10. STABILITY AND REACTIVITY.

Stable at or below -20 °C until expiry date.

No reactivity data available.

SECTION 11. TOXICOLOGICAL INFORMATION.

Short-term effects: May cause eye and skin irritation.

Long-term effects: There are no hazardous long term effects documented.

Precautionary note: To the best of our knowledge, the chemical, physical and toxicological properties of this product have been thoroughly investigated.

SECTION 12. ECOLOGICAL INFORMATION.

No harmful effects at used concentration.

SECTION 13. WASTE DISPOSAL CONSIDERATIONS.

Observe all federal, state, and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION.

No special precaution is required.

SECTION 15. REGULATORY INFORMATION.

None.

SECTION 16. OTHER INFORMATION.

None.

Sulfuric acid H₂SO₄ <10%

SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY.

Product Name: Sulfuric acid H₂SO₄.

This substance is vialled separately and constitutes the stop solution of several enzyme immunoassays. This data sheet is provided together with the material safety data sheet of each immunoassay.

Manufacturer/Supplier: BIOMEDICA MEDIZINPRODUKTE GmbH & Co KG, A-1210 Vienna, Divischgasse 4, Austria,

Technical service: Tel: +43/1/291 07 41, Fax +43/1/291 07 85

SECTION 2. COMPOSITION INFORMATION.

Hazardous Substance	Concentration in the preparation	Classification	CAS No./ EEC No.
Sulfuric acid (H ₂ SO ₄)	conc.<10 %	Irritant – (Xi)	7664-93-9 88/379

Sulfuric acid is classified as Irritant (Xi) within the meaning of EC Directive 67/548/EWG, in the range of concentrations 5% to <10 %.

Causes burns (R36/38).

Other ingredients in the preparation: water.

Other possible hazardous components: none.

SECTION 3. HAZARD IDENTIFICATION.

Sulfuric acid is classified as Irritant (Xi) under the EC Directive 88/379/EEC, in the range of concentrations 5% to <10%.

Causes burns (R36/38).

In case of accident or if you feel unwell, seek medical advice immediately and show label where possible (S 45).

SECTION 4. FIRST AID PROCEDURES.

EYE CONTACT: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26).

SKIN CONTACT: After contact with skin, wash immediately with plenty of water (S28).

INHALATION: No known hazard.

INGESTION: Call a physician.

SECTION 5. FIRE FIGHTING MEASURES.

Aqueous solution, Non-flammable. No special precautions are required to remove the product from a fire arising in the vicinity.

SECTION 6. ACCIDENTAL RELEASE MEASURES.

Prevent skin contact by using rubber gloves and wearing lab coat.

SECTION 7. HANDLING AND STORAGE.

Use rubber gloves and lab coat (S36/37). Wear eye/face protection (S39).

Keep container tightly closed.

Store at the recommended temperature on the vial label.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

No special protection is required, other than standard good laboratory practices. See sections 6 and 7.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES.

Appearance	Clear liquid
Odour	None
pH	Approx. 1
Flammability	Not flammable
Explosive properties	Not explosive
Relative density	Approx. 1.05
Solubility in water	Fully soluble

SECTION 10. STABILITY AND REACTIVITY.

The product is stable and will not polymerize.

SECTION 11. TOXICOLOGICAL INFORMATION.

No specific toxicological data is available for this product.

SECTION 12. ECOLOGICAL INFORMATION.

This product is unlikely to have any effect on the environment if handled according to instructions for use. See section 13.

SECTION 13. DISPOSAL CONSIDERATIONS.

Depending on local effluent discharge regulations, flush to drain, or dispose of under land-fill conditions.

SECTION 14. TRANSPORT INFORMATION.

No special precaution is required.

SECTION 15. REGULATORY INFORMATION.

Information for Europe:

5% ≤ H₂SO₄ < 10%, the product is classified as follows:

Irritant (Xi)/ R(36/38)/ S26-28-(36-37)-39-45.

SECTION 16. OTHER INFORMATION.

This product is intended to be used only by trained laboratory personnel.

SHEET 8

Hazardous Substance
Safety Data Sheet

BSA

SECTION 1. IDENTIFICATION OF SUBSTANCE AND COMPANY.

Product Name ALBUMIN BOVINE FRACTION V POWDER

Manufacturer/Supplier: BIOMEDICA MEDIZINPRODUKTE GmbH & Co KG,
A-1210 Vienna, Divischgasse 4, Austria,

Technical service: Tel: +43/1/291 07 41, Fax +43/1/291 07 85

SECTION 2. COMPOSITION INFORMATION.

Product Name CAS # EC no Annex I

Index Number

SERUM ALBUMIN 9048-46-8 232-936-2 None

SECTION 3. HAZARD IDENTIFICATION.

Not hazardous according to EC Directive 67/548/EEC.

SECTION 4. FIRST AID PROCEDURES.

INHALATION: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

SKIN CONTACT: In case of contact, immediately wash skin with soap and copious amounts of water.

EYE CONTACT: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

INGESTION: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

SECTION 5. FIRE FIGHTING MEASURES.

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6. ACCIDENTAL RELEASE MEASURES.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

SECTION 7. HANDLING AND STORAGE.

HANDLING

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Store at 2-8 °C.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Hand Protection: Protective gloves.

Eye Protection: Chemical safety goggles.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES.

Appearance Physical State: Solid

Water Content < 5 %

Solubility: Solubility in Water: 50 mg/ml H₂O very slightly hazy, yellow

SECTION 10. STABILITY AND REACTIVITY.

STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION.

SIGNS AND SYMPTOMS OF EXPOSURE

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

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract.

May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

SECTION 12. ECOLOGICAL INFORMATION.

Data not available.

SECTION 13. WASTE DISPOSAL CONSIDERATIONS.

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION.

No special precaution is required.

SECTION 15. REGULATORY INFORMATION.

Not hazardous according to EC Directive 67/548/EEC.

SECTION 16. OTHER INFORMATION.

This product is intended to be used only by trained laboratory personnel.

TMB Substrate

SECTION 1. IDENTIFICATION OF SUBSTANCE AND COMPANY.

Product Name TMB SUBSTRATE.

This product constitutes a ready-to-use substrate for several enzyme immunoassays.

Manufacturer: BIOMEDICA MEDIZINPRODUKTE GmbH & Co KG, A-1210 Vienna,
 Divischgasse 4, Austria,

Technical service: Tel: +43/1/291 07 41, Fax +43/1/291 07 85

SECTION 2. COMPOSITION INFORMATION.

Substance	Concentration in the preparation	CAS No./ EEC No.
3,3',5,5'-Tetramethylbenzidine	0,036 %	54827-17-7
EDTA – di-sodium salt	0,093 %	6381-92-6

SECTION 3. HAZARD IDENTIFICATION.

According to EC directive 67/548/EWG this preparation is as not hazardous classified, nevertheless this product should be handled with care.

SECTION 4. FIRST AID PROCEDURES.

SKIN CONTACT: Remove contaminated clothing and wash with soap and water.

EYE CONTACT: Immediately flush with water or physiological salt water, holding eye lids open, remember to remove contact lenses, if any. If needed, get medical attention.

INGESTION: Rinse mouth and drink plenty of water. Keep under surveillance. If needed, get medical attention.

INFORMATION: show this Safety Data Sheet to doctor or emergency ward.

SECTION 5. FIRE FIGHTING MEASURES.

Preparation not flammable.

SECTION 6. ACCIDENTAL RELEASE MEASURES.

Personal precautions: Use personal protection. See protective equipment listed in section 8. Ventilate area of leak or spill.

Methods for cleaning up/collecting: absorb spillage with an inert material and place spillage in a suitable container for disposal. Further handling of spillage: see section 13.

SECTION 7. HANDLING AND STORAGE.

Safe handling: see section 8.

Safe storage: in a well closed container. Storage is recommended at 2-8 °C.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION.

Avoid contact with skin and eyes.

Personal protective equipment: respiratory protection: none with normal use.

Skin protection: use gloves of rubber or plastic.

Eye protection: wear tight fitting safety goggles when risk of splashing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES.

Appearance	Liquid, foamy when shaken
Colour	Light yellow to blue
Odour	characteristic
pH	3.6 to 3.8
Solubility in water	miscible

SECTION 10. STABILITY AND REACTIVITY.

Avoid elevated temperatures. Protect from direct UV light.

Incompatibility: heavy metal salts, peroxidases and other strong oxidizing agents.

SECTION 11. TOXICOLOGICAL INFORMATION.

Components:

3,3',5,5'-Tetramethylbenzidine no information available

EDTA-di-sodium salt LD50 (oral) 2000 mg/kg (rat)

Additional toxicologic information: quantitative data for this preparation are not available.

SECTION 12. ECOLOGICAL INFORMATION.

Do not empty large amounts into water or drains.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal should be according to local, state or national legislation. Dispose through authority facilities or pass to chemical disposal company. Don't dispose into domestic waste.

SECTION 14. TRANSPORT INFORMATION.

No special precaution is required.

SECTION 15. REGULATORY INFORMATION.

The preparation is not to be classified according to EC directive 88/379/EEC.

No known healthy hazards in this preparation.

Symbol: not necessary

Labelling: not necessary

SECTION 16. OTHER INFORMATION.

This product is intended to be used only by trained laboratory personnel.