

**Material Safety Data Sheet**  
**According to EC Directive 91/155/EEC**  
Date of issue: May 2008

**p53-autoantibodies ELISA**

**1 Identification of product and company**

Catalogue No: p53 Aab  
Product name: p53-autoantibodies ELISA Kit  
Use of product: In vitro Diagnosis use only  
Manufacturer: Steinbeis-Transferzentrum für Angewandte Biologische Chemie  
Schulzenstr. 4, D-68259 Mannheim, Germany  
Phone: 0049 621 2926222

**2 Composition and information on ingredients**

Kit reagents are not considered to be hazardous.

**Microtiter Plate**

Polystyrene well coated with purified recombinant p53 protein (CAS number N/A).

**Detector Antibody**

Polyclonal anti human antibody labeled with HRP, buffer contains protein as stabilizer (CAS number N/A).

**Stop Solution**

2 molar hydrochloric acid solution (CAS # 7647-01-0)

**Wash Buffer**

Contains a 20x concentrated Phosphate Buffer salt Solution and 1% Tween 20(CAS # 900-64-5) as detergent

**Substrate Solution**

Tetramethyl Benzidine (CAS # 54827-17-7) 0.05 % w/v  
Hydrogen Peroxide (CAS # 7722-84-1) 0.08 % v/v

**Calibrator**

Diluted human serum containing a defined p53 autoantibody titer.

**Negative Control**

Diluted human serum containing no p53 autoantibodies

### Sample dilution buffer

Freeze dried proteinmatrix with 0,05% sodium azide (CAS # 26628-22-8).

## 3 Hazards identification

### 3.1. Potential Biohazard:

The Calibrator and Negative-Control are formulated with a buffer base, and human serum. The human sera are tested and found to be non-reactive for HIV-1, HIV-2, Hepatitis B surface antigen and HCV. Because no test method can offer absolute assurance that these agents are absent, reagents should be handled as recommended for any potentially infectious human blood product.

### 3.2. Chemical Hazard:

The Calibrator and Negative-Control are formulated with sodium azide. Concentrated Sodium Azide may react with copper and lead plumbing to form explosive metal azides. May react with acids to form explosive hydrazoic acid. If drain disposed, flush with large amounts of water to prevent azide build-up. The TMB Chromogenic Substrate containing TMB, is formulated with DMSO, an irritant on mucous membranes. In case of contact with any of these reagents, wash thoroughly with water.

Stop Solution is an acidic and corrosive agent. Avoid contact with skin.

Routes of entry:	Avoid ingestion and inhalation; avoid contact with skin, eyes.
Potential Acute Health Effects:	May cause skin, eye, or lung irritation.
Carcinogenic Effects Data:	Not available
Chronic Effects of Overexposure:	Not available
Solubility in Water:	Liquids readily miscible in water

## 4 First aid measures

Skin Contact:	Remove contaminated clothing and wash the exposed skin area thoroughly with soap and water.
Eye Contact:	Flush with copious amounts of water for at least 15 minutes. Seek medical attention.
Inhalation:	Remove to fresh air, give oxygen if breathing becomes difficult and seek medical attention.
Ingestion:	Flush mouth with copious amounts of water, provided that the person is conscious and seek medical attention.

## 5 Fire fighting measures

Flammability:	May be combustible at high temperature
Flash point:	Not available
Extinguishing media:	use dry chemical
Special fire fighting procedures:	Wear self contained breathing apparatus and protective clothing.
Unusual fire and explosion hazards:	None known

## 6 Accidental release measures

Body Precautions:	Wear rubber gloves, impermeable shoe covers and long laboratory coat.
Environmental Precautions:	Contain the spill to the smallest area possible.
Cleaning Measures:	Take care not to contaminate body. Absorb the material with disposable towels. Soak area with a 10% bleach solution and wipe up with disposable towels. Dispose of all contaminated trash in accordance with local regulations.

## 7 Handling and storage

Manipulation:	Wear suitable personal protective equipment. Take care not to splash spill or splatter reagents. Do not eat, drink, smoke or apply cosmetics in laboratory areas. Do not pipette samples or reagents by mouth.
Storage:	Store the test kits in 2 - 80 C refrigerators designated and labeled to contain human blood products.

## 8 Exposure Control / personal protection

Body Protection:	Wear long laboratory coat
Respiratory protection:	In case of fire, wear self-contained breathing apparatus.
Hand Protection:	Wear non-permeable rubber, neoprene, latex or nitrile disposable gloves. Change gloves when they become contaminated.
Eyes Protection:	Wear safety glasses or goggles when a splash hazard exists.

## 10 Stability and reactivity

Stability and Reactivity:	The product is stable
Conditions to avoid:	not available
Material to avoid:	not available
Hazardous Decomposition Product:	not available

## 11 Toxicological information

Toxicological data (Toxicity to animal and chronic effects on human) for the reagent mixture are not available and have not yet been thoroughly investigated. May cause slight irritation in case of eye contact or inhalation.

## 12 Ecologic information

Water pollution hazard rating: 1

## 13 Disposal consideration

Waste must be disposed of in accordance with federal, state and local environmental control.

## 14 Transport information

Is not affected by the current rules for transport of hazardous goods (GGVS/ADR, GGVE/RID, IMDG, IATA/ICAO)

## 15 Regulatory information

European information:

S 1 / 2 keep under lock, out of reach of children

S 28 after contact with skin wash immediately with plenty of water

S 36 Wear suitable protective clothing

S 26 In case of contact with eyes rinse immediately with plenty of water and medical advice.

R 36/38 irritating to eyes and skin

## 16 Other information

The above mentioned information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Steinbeis-Transferzentrum für Angewandte Biologische Chemie shall not be held liable for any damage resulting from handling or contact with above product.