Material Safety Data Sheet – Antigen-coated Plate

1. Identification of the preparation and of the supplying company:

Identification of the preparation*:* Antigen-coated Plate

Manufacturer: Genesis Diagnostics Ltd, Henry Crabb Road, Littleport, Cambridgeshire, CB6 1SE UK Tel: +44 (0) 1353 862220; Fax: +44 (0) 1353 863330; E-mail: support@elisa.co.uk

2. Composition/information on ingredients:

Chemical characterisation*:* A polystyrene microplate, coated with dried antigen and a proprietary blocking/stabilising agent contained in a foil pouch with drying agent

Hazardous ingredients: None

3. Hazards identification: No hazards known

4. First aid procedures: None

5. Firefighting measures: No special procedures/media are required

6. Accidental release measures: Not applicable

7. Handling and storage:

Handling: Wash hands after use

Storage: Store at 2 – 8°C

8. Exposure controls/personal protection: Wear latex or vinyl gloves

9. Physical and chemical properties: Clear, colourless 96 well polystyrene plate coated with antigen

10. Stability and reactivity: Stable at 2 - 8ºC until expiry date if unopened; once opened stable for 3 months if stored at 2 - 8 ºC. No reactivity data.

11. Toxological information: None known

12. Ecological information: None known

13. Disposal: Dispose as clinical waste

14. Transport Information:

CDG UK:	Non-hazardous for road freight
IMDG:	Non-hazardous for sea-freight
IATA:	Non-hazardous for air-freight

Material Safety Data Sheet – Antigen-coated Plate

15. Regulatory Information:

Labelling according to EC Directives:

Not classified as dangerous

16. Other information:

Material Safety Data Sheet – Standards and Control

1. Identification of the preparation and of the supplying company:

Identification of the preparation*:* Standards and Control

Manufacturer: Genesis Diagnostics Ltd, Henry Crabb Road, Littleport, Cambridgeshire, CB6 1SE UK. Tel: +44 (0) 1353 862220; Fax: +44 (0) 1353 863330; E-mail: support@elisa.co.uk

2. Composition/information on ingredients:

Chemical characterisation*:* Aqueous, protein-free solution containing human serum, sodium azide (0.09%).

Hazardous ingredients:

Component:	Sodium azide
Content:	≤ 0.09%
CAS number:	026628-22-8
Symbol:	Very toxic T+; N
R-phrases:	R28, 32, 50/53
S-phrases:	S 53-28-45-60-61

Human serum

3. Hazards identification: At product concentration, though not classified as hazardous, build-ups of sodium azide may react with lead and copper plumbing to form highly explosive metal oxides. Upon disposal, flush with large volumes of water to prevent azide build-up in plumbing.

The human serum used in these products has been shown to be negative for HIV 1 & 2, HCV and HbSAg. Since no test is 100% reliable, this material should be treated as potentially infectious.

4. First aid procedures:

Ingestion: Rinse mouth with water provided person is conscious
Skin: Wash thoroughly with anti-microbial soap and water. Wash contaminated clothing before re-use.
Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes
Inhalation: Remove to fresh air; if not breathing, give artificial respiration

5. Firefighting measures: No special procedures/media are required

6. Accidental release measures: Wear appropriate protective clothing**.** Cover with absorbent; wash area thoroughly with liquid disinfectant. Dispose contaminated materials as clinical waste.

7. Handling and storage:

Handling: Wash hands after working with substance

Storage: Store at 2 – 8°C

8. Exposure controls/personal protection: Wear latex or vinyl gloves, a laboratory coat during use and safety glasses

9. Physical and chemical properties: Liquid, blue (standards) green (control); odourless

Material Safety Data Sheet – Standards and Control

10. Stability and reactivity: Stable at 2 –8°C until expiry date if unopened; once opened stable for 3 months if stored at 2-8 °C. No reactivity data.

11. Toxological information:

Short-term effects: In pure form, sodium azide is highly toxic and may be fatal if inhaled, swallowed, or absorbed through the skin. May cause eye and skin irritation. At product concentrations, sodium azide is not believed to cause hazardous short-term effects.

Long-term effects: In pure form, sodium azide is classified as a questionable carcinogen with experimental tumorigenic data. At product concentrations, 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 not been thoroughly investigated at product concentrations.

12. Ecological information: Observe all federal, state and local environmental regulations. If the disposal of this solution is acceptable, flush with large volumes of water to prevent build-up of azides in plumbing.

13. Disposal: Dispose as clinical waste. Observe all federal, state and local environmental regulations

14. Transport Information:

CDG UK:	Non-hazardous for road freight
IMDG:	Non-hazardous for sea-freight
IATA:	Non-hazardous for air-freight

15. Regulatory Information:

Labelling according to EC Directives:

Not classified as dangerous

Local regulations:
Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health COSHH regulations

16. Other information:

Material Safety Data Sheet – Sample Diluent

1. Identification of the preparation and of the supplying company:

Identification of the preparation*:* Sample Diluent (Ready to Use)

Manufacturer: Genesis Diagnostics Ltd, Henry Crabb Road, Littleport, Cambridgeshire, CB6 1SE UK Tel: +44 (0) 1353 862220; Fax: +44 (0) 1353 863330; E-mail: support@elisa.co.uk

2. Composition/information on ingredients:

Chemical characterisation*:* 10mM Tris-Buffered saline containing a blocking agent, sodium azide (0.09%) and Proclin 300 (0.05%)

Hazardous ingredients:

Component:	Sodium Azide	Tris-buffered saline	Proclin 300
Content:	≤ 0.09%	10mM	≤ 0.05%
CAS number:	026628-22-8	None	None
Symbol:	Very toxic T+; N	Xi	C
R-phrases:	R28, 32, 50/53	R36/37/38	R34 –R43
S-phrases:	S 53-28-45-60-61	S26-36	S26, S36/37/39, S45

3. Hazards identification: Not classified as hazardous according to EC Directives but contains hazardous components

4. First aid procedures:

Ingestion: Rinse mouth with water provided person is conscious
Skin: Wash thoroughly with anti-microbial soap and water. Wash contaminated clothing before re-use.
Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes
Inhalation: Remove to fresh air; if not breathing provide artificial respiration

5. Firefighting measures: No special procedures/media are required

6. Accidental release measures: Wear appropriate protective clothing**.** Cover with absorbent; wash area thoroughly.

7. Handling and storage:

Handling: Wash hands after working with substance

Storage: Store at 2 - 8°C

8. Exposure controls/personal protection: Wear latex or vinyl gloves, a laboratory coat during use and safety glasses

9. Physical and chemical properties: Liquid, blue; odourless

10. Stability and reactivity: Stable at 2 - 8°C until expiry date if unopened; once opened stable for 3 months if stored at 2 - 8 °C. No reactivity data.

Material Safety Data Sheet – Sample Diluent

11. Toxological information:

Short-term effects: In pure form, sodium azide is highly toxic and may be fatal if inhaled, swallowed, or absorbed through the skin. May cause eye and skin irritation. At product concentrations, sodium azide is not believed to cause hazardous short-term effects.

Long-term effects: In pure form, sodium azide is classified as a questionable carcinogen with experimental tumorigenic data. At product concentrations, 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 not been thoroughly investigated at product concentrations.

12. Ecological information: No harmful effects at use concentration

13. Disposal: Observe all federal, state and local environmental regulations

14. Transport Information:

CDG UK: Non-hazardous for road freight
IMDG: Non-hazardous for sea-freight
IATA: Non-hazardous for air-freight

15. Regulatory Information:

Labelling according to EC Directives:

Not classified as dangerous

16. Other information:

Material Safety Data Sheet – Conjugate anti-human IgG

1. Identification of the preparation and of the supplying company:

Identification of the preparation*:* Conjugate

Manufacturer: Genesis Diagnostics Ltd, Henry Crabb Road, Littleport, Cambridgeshire, CB6 1SE UK Tel: +44 (0) 1353 862220; Fax: +44 (0) 1353 863330; E-mail: support@elisa.co.uk

2. Composition/information on ingredients:

Chemical characterisation*:* Rabbit anti-human IgG conjugated to horseradish peroxidase in protein stabilising solution containing Proclin 300 (0.05%)

Hazardous ingredients:

Component:	Tris-buffered saline	Proclin300
Content:	10mM	≤ 0.05%
CAS number:	None	None
Symbol:	Xi	C
R phrases:	R36/37/38	R34 –R43
S phrases:	S26-36	S26, S36/37/39, S45

3. Hazards identification: Not classified as dangerous according to EC Directives but contains hazardous components

4. First aid procedures:

Ingestion: Wash out mouth with water, then drink 1 cup of water or milk to dilute
Skin: Wash thoroughly with anti-microbial soap and water. Wash contaminated clothing before re-use
Eyes: Immediately flush eyes with copious amounts of water for at least 15 minutes
Inhalation: No special first aid measures; inhalation unlikely

5. Firefighting measures: No special procedures/media are required

6. Accidental release measures: Wear appropriate protective clothing**.** Cover with absorbent; wash area thoroughly.

7. Handling and storage:

Handling: Wash hands after working with substance

Storage: Store at 2 - 8°C

8. Exposure controls/personal protection: Wear latex or vinyl gloves, a laboratory coat during use and safety glasses

9. Physical and chemical properties: Liquid, red; odourless

10. Stability and reactivity: Stable at 2 - 8°C until expiry date if unopened; once opened stable for 3 months if stored at 2 - 8 °C. No reactivity data.

11. Toxological information: None known at use concentration

Material Safety Data Sheet – Conjugate anti-human IgG

12. Ecological information: No harmful effects at use concentration

13. Disposal: Dispose as clinical waste; observe all federal, state and local regulations

14. Transport Information:

CDG UK: Non-hazardous for road freight
IMDG: Non-hazardous for sea-freight
IATA: Non-hazardous for air-freight

15. Regulatory Information:

Labelling according to EC Directives:

Not classified as dangerous

16. Other information:

Material Safety Data Sheet – Wash Buffer x10 Concentrate

1. Identification of the preparation and of the supplying company:

Identification of the preparation*:* Wash Buffer x10 Concentrate

Manufacturer: Cambridge Nutritional Sciences Ltd, Henry Crabb Road, Littleport, Cambridgeshire, CB6 1SE UK. Tel: +44 (0) 1353 862220; Fax: +44 (0) 1353 863330; E-mail: support@elisa.co.uk

2. Composition/information on ingredients:

Chemical characterisation*:* 100mM Tri-buffered saline containing 0.2% Triton X-100 and Proclin 300

Hazardous ingredients:

Component:	Triton X-100	Tris-buffered saline	Proclin 300
Content:	≤ 0.02%	10mM	≤0.05%
CAS number:	9002-93-1	None	None
Symbol:	Xn	Xi	C
R-phrases:	R21-41	R36/37/38	R34-R43
S-phrases:	S23-26-36	S26-36	S26, S36/37/39, S45

3. Hazards identification: Not classified as dangerous according to EC Directives but contains hazardous components

4. First aid procedures:

Ingestion: Wash out mouth with water provided person is conscious
Skin: Immediately wash skin with copious amounts of water
Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration.

5. Firefighting measures: Water spray, carbon dioxide, dry chemical powder, or appropriate foam

6. Accidental release measures: Wear appropriate protective clothing**.** Cover with absorbent; wash area thoroughly.

7. Handling and storage:

Handling: Wash hands after working with substance

Storage: Store at 2 - 8°C; protect from light

8. Exposure controls/personal protection: Wear latex or vinyl gloves, a laboratory coat during use and safety glasses

9. Physical and chemical properties: Liquid, clear, odourless

10. Stability and reactivity: Stable at 2 - 8°C until expiry date if unopened; once opened stable for 3 months if stored at 2 - 8 °C. No reactivity data.

Material Safety Data Sheet – Wash Buffer X10 Concentrate

11. Toxological information: None known

12. Ecological information: No harmful effects at use concentration

13. Disposal: Normal disposal with copious amounts of water; observe all federal, state and local regulations

14. Transport Information:

CDG UK: Non-hazardous for road freight
IMDG: Non-hazardous for sea-freight
IATA: Non-hazardous for air-freight

15. Regulatory Information:

Labelling according to EC Directives:

Not classified as dangerous

16. Other information:

Material Safety Data Sheet – TMB Substrate Solution

1. Identification of the preparation and of the supplying company:

Identification of the preparation*:* TMB Substrate Solution

Manufacturer: Genesis Diagnostics Ltd, Henry Crabb Road, Littleport, Cambridgeshire, CB6 1SE UK. Tel: +44 (0) 1353 862220; Fax: +44 (0) 1353 863330; E-mail: support@elisa.co.uk

2. Composition/information on ingredients:

Chemical characterisation*:* A mildly acidic aqueous solution of 3,3',5,5'-tetramethylbenzidine and hydrogen peroxidase

Hazardous ingredients:

Component:	3,3',5,5'-tetramethylbenzidine	Hydrogen peroxide
Content:	≤ 0.05%	<0.02%
CAS number:	54827-17-7	7722-84-1
Symbol:	Xi irritant	O oxidising
R-phrases:	R36/37/38	R8; R34
S-phrases:	S22-26-36	S53-17-26-45-36/37/39

3. Hazards identification: Irritating to eyes, respiratory system and skin. A mild oxidising agent. Toxological properties have not been thoroughly investigated.

4. First aid procedures:

Ingestion: Induce vomiting and consult physician
Skin: Wash with soap and water. Wash contaminated clothing before re-use
Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes
Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

5. Firefighting measures: Water spray, carbon dioxide, dry chemical powder, or appropriate foam

6. Accidental release measures: Wear appropriate protective clothing**.** Cover with absorbent; wash area thoroughly.

7. Handling and storage:

Handling: Wash hands after working with substance

Storage: Store at 2 - 8°C; protect from light

8. Exposure controls/personal protection: Wear latex or vinyl gloves, a laboratory coat during use and safety glasses

9. Physical and chemical properties: Liquid, clear to light cast, odourless

10. Stability and reactivity: Stable at 2 - 8°C until expiry date if unopened; once opened stable for 3 months if stored at 2 - 8 °C. No reactivity data.

Material Safety Data Sheet –TMB Substrate Solution

11. Toxological information: None known

12. Ecological information: No harmful effects at use concentration

13. Disposal: Normal disposal with copious amounts of water; observe all federal, state and local regulations

14. Transport Information:

CDG UK:	Non-hazardous for road freight
IMDG:	Non-hazardous for sea-freight
IATA:	Non-hazardous for air-freight

15. Regulatory Information:

Labelling according to EC Directives:

Not classified as dangerous

16. Other information:

Material Safety Data Sheet – Stop Solution

1. Identification of the preparation and of the supplying company:

Identification of the preparation*:* Stop Solution

Manufacturer: Genesis Diagnostics Ltd, Henry Crabb Road, Littleport, Cambridgeshire, CB6 1SE UK. Tel: +44 (0) 1353 862220; Fax: +44 (0) 1353 863330; E-mail: support@elisa.co.uk

2. Composition/information on ingredients:

Chemical characterisation*:* Sulphuric acid 0.25mol/l (0.5N) solution (<5%)

Hazardous ingredients:

Component:	Sulphuric Acid
Content:	<5%
CAS number:	7664-93-9
Symbol:	C Corrosive
R-phrases:	R35
S-phrases:	S (1/2) -26-30-45

3. Hazards identification: Not classified as dangerous according to EC Directives but contains hazardous components.

4. First aid procedures:

Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. Obtain medical attention.

Skin: Wash with soap and water. Remove contaminated clothing and was before re-use. In severe cases, obtain medical attention.

Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes. If discomfort persists obtain medical attention.

Inhalation: Remove from exposure, rest and keep warm. In severe cases obtain medical attention.

5. Firefighting measures:

Special Risks:

May evolve toxic fumes in fire

Suitable Extinguishing Material:

To suit environment

6. Accidental release measures: Wear appropriate protective clothing. Spread soda ash liberally over the spillage. If local regulations permit, mop up cautiously with plenty of water and run to waste, diluting greatly with running water. Wash site of spillage thoroughly with water.

7. Handling and storage:

Handling: Wash hands after working with substance

Storage: Store at 2 - 8°C or room temperature (15 - 25 °C). Keep well closed and protected from direct sunlight and moisture.

Material Safety Data Sheet – Stop Solution

8. Exposure controls/personal protection:

UK Exposure Limits:

OES – Sulphuric Acid: Long term: 1mg/m^3

Personal Protective Equipment:

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

9. Physical and chemical properties: Liquid, colourless, odourless

10. Stability and reactivity: Stable, no data

11. Toxological information:

- After inhalation: may irritate
- After eye contact: May irritate
- After skin contact: May irritate
- After ingestion: Irritation of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract

12. Ecological information: A harmful effect on aquatic organisms cannot be excluded in the event of improper handling or disposal.

13. Disposal: Contact your local waste authority for advice, or pass to chemical waste company.

14. Transport Information:

UN-No.: 3264 Class: 8 Packaging group: III
Proper shipping name: CORRSOSIVE LIQUID, ACIDIC, N.O.S. (SULPHURIC ACID SOLUTION)
ADR/RID: 8, 17'©

15. Regulatory Information:

Labelling according to EC Directives:

Not classified as dangerous according to EC Directives but contains hazardous components

Local Regulations:

UK transport category 3
Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health COSHH regulations

16. Other information: