

Material Safety Data Sheet

acc. to Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008

1.1 Protrans Domino System Thrombocyte antigen typing (HPA)

REF	Article	Kit HPA Typing
201 090	PROTRANS HPA Domino System	60 16 well strip
201 092	PROTRANS HPA Domino System	30 16 well strip

1.2 Protrans Domino System HLA – disease associations

REF	Article	Kit DNA Typing
201 093	PROTRANS HLA Celiac Disease Domino System	24 24 well strip

REACH Registration No.: None

1.3

Protrans Domino System is a low resolution typing system for HLA and HPA alleles based on the SSP PCR method.

2. Composition/Information on Ingredients

Components	Chemicals	Common Names	CAS No.
PCR Primer Mix Cyclerstrips and Cyclerplates	Cresol Red		62625-29-0
	Deoxyribo-Nucleic Acid (=DNA)	Oligonucleotide	170274-78-9

Mastermix PROTRANS Buffer D, P, Y	Ammonium Sulfate		7783-20-2
	Tris Buffer		77-86-1, 1185-53-1
	Magnesium Chloride		7791-18-6
	Glycerol	Glycerin	56-81-5
	Cresol Red		62625-29-0
	Deoxyribo- nucleotides	Nucleotides	1927-31-7

Cas.No: a unique numeric identifier (designates only one substance)

3. Hazards Identification

3.1 Classification of substances or mixture

No hazardous mixtures according to Regulation (EC) No. 1272/2008 (CLP)

3.2 Label elements

Hazardous labelling not required according to Regulation (EC) No. 1272/2008 (CLP)

3.3 Other Hazards

Protrans SSP Domino System products contain no substances which at their given concentrations are considered to be hazardous to health. We recommend handling of components with caution, contact with skin and mucous membranes should be avoided.

Mastemix

May be harmful if ingested, inhaled or absorbed through skin. Irritating to eyes, skin and mucous membranes. (refer to 4. First Aid Measures and 11.Toxicology)

4. First Aid Measures

In case of contact with eyes: immediately flush eyes with copious amounts of water for at least 15 minutes. Call a Physician.

In case of contact with skin: immediately wash skin with soap and copious amounts of water. Call a Physician.

In case of inhalation: remove to fresh air, if not breathing give artificial respiration. If breathing difficult, give oxygen. Call a Physician.

In case of ingestion: wash out mouth with water provided person is conscious. Call a physician.

5. Fire-Fighting Measures

Extinguishing Media: Water spray, Carbon Dioxide, dry chemical powder or appropriate foam.

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

Unusual fire hazards: May emit toxic fumes under fire conditions.

6. Accidental Release Measures

Personal Protection: Avoid direct contact with reagents. Wear protective clothing and boots, appropriate chemically resistant gloves and chemical safety goggles.

Cleaning Method: Clean up with inert material, avoid raising dust and place in a suitable container for disposal. Wash spilled site after material has been picked up and ventilate area.

7. Handling and Storage

Wear suitable protective clothing and gloves. It is not necessary to work in a hood or to wear a mask while performing the test.

Store the components at temperature indicated for each of them on the product labels and the working instruction.

Protect from light.

8. Exposure Controls/Personal Protection

Chemical Safety Goggles, Compatible Chemical-Resistant Gloves, NIOSH/MSHA – approved Respirator, Safety Shower and Eye Bath.

Do not inhale. Mechanical exhaust is required.

Irritant. Avoid contact with skin, eyes, mucous membranes and clothing.

Wash thoroughly after handling.

Keep tightly closed.

9. Physical and Chemical Properties

Components	Appearance	Color
PROTRANS PCR-SSP Cyclerstrips/Cyclerplates	Dried Residue in cavity of PCR-trays	Pink
Buffer D	Slight Viscous Liquid in plastic tubes	Purple
Buffer P	Slight Viscous Liquid in Plastic tubes	Purple
Buffer Y	watery liquid in plastic tubes	colourless

Additional Information:

Violent or explosive reactions have been reported to occur upon direct contact of glycerol with e.g. sodium hydride, phosphorous trioxide, perchloric acid, chlorine, calciumhypochlorite, nitric acid and hydrofluoric acid, nitric acid and sulfuric acid, sodium peroxide, hydrogen peroxide or potassium permanganate.

10. Stability and Reactivity

Incompatibilities: strong oxidizing agents, strong bases

Hazardous Combustion or Decomposition Products: Sulfur Oxides, Ammonia, Nitrogen Oxides, Carbon Monoxide, Carbon Dioxide, and Phosphorous Oxides

Hazardous Polymerization: Not known to occur

11. Toxicology

11.1 Information on toxicological effects

Acute toxicity	Not classified as acutely toxic.
Skin corrosion / irritation	Glycerol can cause mild skin irritation.
Eye damage / irritation	Glycerol can cause mild eye irritation.
Respiratory / skin sensitization	Not classified as a sensitizer.

Toxicological information on the chemicals listed in section 2 (composition/information on ingredients) can be obtained e.g. from the TOXNET Data Bases (Toxicology Data Network) (<http://toxnet.nlm.nih.gov>).

12. Ecological Information

Data not available.

13. Disposal Considerations

The material can be burned in an appropriate chemical incinerator. Observe all Federal, State and Local environmental regulations.

14. Transport Information

Components	Transport Temperature	Storage Temperature
PROTRANS PCR-SSP Cyclerstrips/Cyclerplates	↓ RT	↓ 2-8°C
Buffer R	↓ RT	↓ -15°C - 30°C
Buffer P	↓ RT	↓ -15°C - 30°C
Buffer Y	↓ RT	↓ -15°C - 30°C

15. Regulatory Information

Data not available.

16. Other Information

The information given in this MSDS is not supposed to be comprehensive and should only be used as a guide.

This product is for professional use only.

Protrans medizinische, diagnostische Produkte GmbH, Hockenheim, Germany is not liable for any damage resulting from handling or using the products mentioned above.