

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

PRODUCT NAME	Hard Tissue kits
PRODUCT NUMBERS	8509
Address/ Phone No	Gen-Probe Life Sciences Ltd. Heron House Oaks Business Park Crewe Road Wythenshawe UNITED KINGDOM, M23 9HZ Telephone +44 (0) 161 946 2200 e-mail: allan.swift@gen-probe.com

2. INFORMATION ON COMPONENTS

CONTENTS	A matched set of components of 1 bottle of Sodium Perchlorate, Proteinase K, Reagent B and Nucleon Resin
CAS No	None assigned for the product
EC No	None assigned for the product
Use	For the extraction of DNA from tissue. For professional use only.
HAZARDOUS INGREDIENT(S)	Listed below for each componen

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

COMPONENT NAME	SODIUM PERCHLORATE
PRODUCT NUMBERS	8509/03
Address/ Phone No	Gen-Probe Life Sciences Ltd. Heron House Oaks Business Park Crewe Road Wythenshawe UNITED KINGDOM, M23 9HZ Telephone +44 (0) 161 946 2200 e-mail: allan.swift@gen-probe.com

2. HAZARDS IDENTIFICATION

Risks	R9 Explosive when mixed with combustible material; R22 Harmful if swallowed
Special Risk Conditions	S14 Keep away from reducing reagents, Combustible material

3. INFORMATION ON COMPONENTS

CONTENTS	6mL of 70% Aqueous solution sodium perchlorate
CAS No	None assigned for the component
EC No	None assigned for the component
Use	For use in the extraction of DNA from tissue. For professional use only.

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
Sodium Perchlorate	7791-07-3 R22,R9	Xn O	

4. FIRST-AID MEASURES

Inhalation	Remove to fresh air and keep at rest. Unlikely route of exposure
Skin Contact	Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.
Eye contact	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.
Ingestion	If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink
Further Medical treatment	Symptomatic treatment and supportive therapy as indicated.

5. FIRE FIGHTING MEASURES

Oxidising agent	In case of fire do not breathe fumes
Extinguishing Media	In case of fire keep away from combustible materials, decomposes to form toxic gas(chlorine)
Fire fighting protective equipment	Use water spray, CO ₂ dry chemical powder or appropriate foam. Wear self contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Small spillages	Ensure suitable personal protection during removal of spillages. To clean the floor and all objects contaminated with this component use water.
Spill treatment method	Wear suitable protective clothing. Mix with sand, scoop into a container and hold for disposal. Wash spill site with water.

7. HANDLING AND STORAGE

HANDLING	Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. When using do not eat or drink
STORAGE	Store at 15°C – 25°C
Storage Life	Total storage life at recommended conditions 24 months

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respirators	Not applicable
Eye protection	Splash proof goggles or safety glasses
Gloves	Latex or other light weight gloves
Other	Lab coat
Occupational exposure limits	Non set

9. PHYSICAL AND CHEMICAL PROPERTIES

	There are no unusual properties. The product's characteristics are very similar to water
Form	Liquid
Colour	Colourless
Odour	Odourless
pH (Value)	8
Boiling point (°C)	100
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	1.0

10. STABILITY & REACTIVITY

Stable

Hazardous reactions	Keep away from reducing agents, combustible materials
Hazardous Decomposition Products	On combustion decomposes to form toxic gas (chlorine)

11. TOXICOLOGICAL INFORMATION

Inhalation	Unlikely route of exposure. May cause respiratory tract irritation
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use. The only likely symptom would be a local reaction, such as reddening or inflammation, after accidental injection of this product
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use. May cause severe eye irritation. May cause inflammation of conjunctiva and cornea.

Component Part:**Sodium Perchlorate**

Ingestion

Unlikely to cause harmful effects under recommended conditions of handling and use. If ingested may cause irritation of the digestive tract

Long term exposure

Unlikely to cause harmful effects under recommended conditions of handling and use. However may interfere with iodine uptake of the thyroid gland and enlarge it

12 ECOLOGICAL INFORMATION

No information available

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Not classified as Dangerous for Transport

15. REGULATORY INFORMATION

Not classified as Dangerous for Supply/Use

16. OTHER INFORMATION

This section of data sheet relating to Sodium Perchlorate is prepared in accordance with Directive EC 1907/2006; SI 2008 No 2852

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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION
& COMPANY UNDERTAKING**

COMPONENT NAME	Proteinase K
PRODUCT NUMBERS	8509/04
Address/ Phone No	Gen-Probe Life Sciences Ltd. Heron House Oaks Business Park Crewe Road Wythenshawe UNITED KINGDOM, M23 9HZ Telephone +44 (0) 161 946 2200 e-mail: allan.swift@gen-probe.com

2. HAZARDS IDENTIFICATION

Risks	R42/42 May cause sensitisation by inhalation and skin contact
Special Risk Conditions	None Identified

3. INFORMATION ON COMPONENTS

CONTENTS	Proteinase K (10mg)
CAS No	None assigned for the component
EC No	None assigned for the component
Use	For use in the extraction of DNA from tissue. For professional use only.

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
Protein K	39450-01-06	Xn	R21/21/22 R36/37/38 R42/43

4. FIRST-AID MEASURES

Inhalation	Remove to fresh air and keep at rest. Unlikely route of exposure
Skin Contact	Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.
Eye contact	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.
Ingestion	If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink
Further Medical treatment	Symptomatic treatment and supportive therapy as indicated.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use water spray, CO ₂ , dry chemical powder or appropriate foam.
Fire fighting protective equipment	

6. ACCIDENTAL RELEASE MEASURES

Small spillages	Ensure suitable personal protection during removal of spillages. To clean the floor and all objects contaminated with this component use water.
Spill treatment method	Wear suitable protective clothing. Mix with sand, scoop into a container and hold for disposal. Wash spill site with water.

7. HANDLING AND STORAGE

HANDLING	Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. When using do not eat or drink
STORAGE	Store at- 20 °C
Storage Life	Total storage life at recommended conditions 24 months

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respirators	Not applicable
Eye protection	Splash proof goggles or safety glasses
Gloves	Latex or other light weight gloves
Other	Lab coat
Occupational exposure limits	Non set

9. PHYSICAL AND CHEMICAL PROPERTIES

	There are no unusual properties.
Form	Powder
Colour	White
Odour	Odourless
pH (Value)	Not Applicable
Boiling point (°C)	Not Applicable
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	Not applicable

10. STABILITY & REACTIVITY

Stable	Under advised storage conditions 24months
Hazardous reactions	None known
Hazardous Decomposition Products	Not applicable

11. TOXICOLOGICAL INFORMATION

Inhalation	Unlikely route of exposure
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use. The only likely symptom would be a local reaction, such as reddening or inflammation, after accidental injection of this product
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use. May cause eye irritation. May cause inflammation of conjunctiva and cornea.
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use

12 ECOLOGICAL INFORMATION

No information available

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Not classified as Dangerous for Transport

15. REGULATORY INFORMATION

Not classified as Dangerous for Supply/Use

16. OTHER INFORMATION

This part of the data sheet relating to the Proteinase K is prepared in accordance with Directive EC 1907/2006; SI 2008 No 2852

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**2. IDENTIFICATION OF THE SUBSTANCE/PREPARATION
& COMPANY UNDERTAKING**

COMPONENT NAME	REAGENT B
PRODUCT NUMBERS	8501/02,8502/02 8512/02
Address/ Phone No	Gen-Probe Life Sciences Ltd. Heron House Oaks Business Park Crewe Road Wythenshawe UNITED KINGDOM, M23 9HZ Telephone +44 (0) 161 946 2200 e-mail: allan.swift@gen-probe.com

2. HAZARDS IDENTIFICATION

Risks	Xi Xn , F	R36,37,38 R11,22,36/38
Special Risk Conditions	None Identified	

3. INFORMATION ON COMPONENTS

CONTENTS 18mL of aqueous solution containing <5% EDTA and SDS

CAS No None assigned for the component
 EC No None assigned for the component
 Use For use in the extraction of DNA from blood.
 For professional use only.

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
Trizma HCl	1185-53-1	none	none
EDTA	60-00-4	Xi	R36,37,38
SDS	151-21-3	Xn , F	
	R11,22,36/38		

4. FIRST-AID MEASURES

Inhalation	Remove to fresh air and keep at rest. Unlikely route of exposure
Skin Contact	Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.
Eye contact	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.
Ingestion	If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink
Further Medical treatment	Symptomatic treatment and supportive therapy as indicated.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use water spray, CO ₂ dry chemical powder or appropriate foam.
Fire fighting protective equipment	

6. ACCIDENTAL RELEASE MEASURES

Small spillages	Ensure suitable personal protection during removal of spillages. To clean the floor and all objects contaminated with this component use water.
Spill treatment method	Wear suitable protective clothing. Mix with sand, scoop into a container and hold for disposal. Wash spill site with water.

7. HANDLING AND STORAGE

HANDLING	Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. When using do not eat or drink
STORAGE	Store at 15°C – 25°C
Storage Life	Total storage life at recommended conditions 36 months

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respirators	Not applicable
Eye protection	Splash proof goggles or safety glasses
Gloves	Latex or other light weight gloves
Other	Lab coat
Occupational exposure limits	Non set

9. PHYSICAL AND CHEMICAL PROPERTIES

	There are no unusual properties. The product's characteristics are very similar to water
Form	Liquid
Colour	Colourless
Odour	Odourless
pH (Value)	8
Boiling point (°C)	100
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	1.0

10. STABILITY & REACTIVITY

Stable	Under advised storage conditions 36months
Hazardous reactions	None known
Hazardous Decomposition Products	Not applicable

11. TOXICOLOGICAL INFORMATION

Inhalation	Unlikely route of exposure
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use. The only likely symptom would be a local reaction, such as reddening or inflammation, after accidental injection of this product
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use. May cause eye irritation. May cause inflammation of conjunctiva and cornea.
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use

12 ECOLOGICAL INFORMATION

No information available

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Not classified as Dangerous for Transport

15. REGULATORY INFORMATION

Not classified as Dangerous for Supply/Use

16. OTHER INFORMATION

This part of the data sheet relating to the Reagent B is prepared in accordance with Directive EC 1907/2006; SI 2008 No 2852

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**3. IDENTIFICATION OF THE SUBSTANCE/PREPARATION
& COMPANY UNDERTAKING**

COMPONENT NAME	Nucleon Resin
PRODUCT NUMBERS	8501/04,8502/04 8512/04
Address/ Phone No	Gen-Probe Life Sciences Ltd. Heron House Oaks Business Park Crewe Road Wythenshawe UNITED KINGDOM, M23 9HZ Telephone +44 (0) 161 946 2200 e-mail: allan.swift@gen-probe.com

2. HAZARDS IDENTIFICATION

Risks	None identified
Special Risk Conditions	None Identified

3. INFORMATION ON COMPONENTS

CONTENTS	8mL aqueous solution containing <20% potassium nitrate and potassium hydroxide.
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CAS No	None assigned for the component
EC No	None assigned for the component
Use	For use in the extraction of DNA from tissue. For professional use only.

HAZARDOUS INGREDIENT(S)	CAS No	Symbol	R Phrases
Potassium Nitrate	7757-79-1	O	R8
Potassium Hydroxide	1310-58-3	C	R22,35

4. FIRST-AID MEASURES

Inhalation	Remove to fresh air and keep at rest. Unlikely route of exposure
Skin Contact	Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.
Eye contact	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.
Ingestion	If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink
Further Medical treatment	Symptomatic treatment and supportive therapy as indicated.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use water spray, CO ₂ dry chemical powder or appropriate foam.
Fire fighting protective equipment	

6. ACCIDENTAL RELEASE MEASURES

Small spillages	Ensure suitable personal protection during removal of spillages. To clean the floor and all objects contaminated with this component use water.
Spill treatment method	Wear suitable protective clothing. Mix with sand, scoop into a container and hold for disposal. Wash spill site with water.

7. HANDLING AND STORAGE

HANDLING	Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. When using do not eat or drink
STORAGE	Store at 15°C – 25°C
Storage Life	Total storage life at recommended conditions 24 months

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respirators	Not applicable
Eye protection	Splash proof goggles or safety glasses
Gloves	Latex or other light weight gloves
Other	Lab coat
Occupational exposure limits	None set

9. PHYSICAL AND CHEMICAL PROPERTIES

	There are no unusual properties. The product's characteristics are very similar to water
Form	Liquid/suspension
Colour	Orange
Odour	Metallic odour
pH (Value)	7
Boiling point (°C)	100
Flash Point (°C)	Not Applicable
Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	Not Applicable

10. STABILITY & REACTIVITY

Stable	Under advised storage conditions 24months
Hazardous reactions	None known
Hazardous Decomposition Products	Not applicable

11. TOXICOLOGICAL INFORMATION

Inhalation	Unlikely route of exposure
Skin contact	Unlikely to cause harmful effects under recommended conditions of handling and use. The only likely symptom would be a local reaction, such as reddening or inflammation, after accidental injection of this product
Eye contact	Unlikely to cause harmful effects under recommended conditions of handling and use. May cause eye irritation. May cause inflammation of conjunctiva and cornea.
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use

12 ECOLOGICAL INFORMATION

No information available

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

Not classified as Dangerous for Transport

15. REGULATORY INFORMATION

Not classified as Dangerous for Supply/Use

16. OTHER INFORMATION

This part of the data sheet relating to the Reagent B is prepared in accordance with Directive EC 1907/2006; SI 2008 No 2852

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