



MATERIAL SAFETY DATA SHEET

IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

PRODUCT NAME	Genomic Mouse Tail DNA Kit
PRODUCT NUMBERS	44200, 44201
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

INFORMATION ON COMPONENTS

CONTENTS	A matched set of components of 1 bottle of Proteinase K, Reagent B, Reagent C and Nucleon Resin 44200 small – 50 extraction kit 44201 large -200 extraction kit
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 component

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

COMPONENT NAME	REAGENT B
PRODUCT NUMBERS	44200/01, 44201/01
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	R36/37/38 Irritating to eyes, respiratory system and skin
Special Risk Conditions	None Identified

3. INFORMATION ON COMPONENTS

CONTENTS	10mL (40mL) ¹ of an aqueous solution containing <5% EDTA an SDS
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
EDTA	60-00-4	Xi	R36,37,38
SDS	151-21-3	Xn , F	R11,22,36/38
Tris HCl	1185-53-1	Xi	R36,37,38

¹ Volumes in parenthesis relate to large kit (44201/01)

4. FIRST-AID MEASURES

Inhalation	Remove to fresh air and keep at rest. Unlikely route of exposure S63
Skin Contact	Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention. S28
Eye contact	Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain immediate medical attention.S26
Ingestion	If swallowed seek medical advice immediately. Wash out mouth with water and give 200-300mL of water to drink S46, S64
Further Medical treatment	Symptomatic treatment and supportive therapy as indicated. S45

5. FIRE FIGHTING MEASURES

Extinguishing Media Fire fighting protective equipment	Use water spray, CO ₂ dry chemical powder or appropriate foam.
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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	None set

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	There are no unusual properties. The product's characteristics are very similar to water Liquid
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Component Part:**Reagent B**

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 with Directive EC 1907/2006; SI 2008 No 2852

The information and recommendations in this data sheet are to the best of our knowledge, information and belief accurate at the date of issue. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the users to determine the applicability, of such information or the suitability of the products for their own particular purpose.

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

COMPONENT NAME	REAGENT C
PRODUCT NUMBERS	44200/02,44201/02
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	Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC
Special Risk Conditions	None

3. INFORMATION ON COMPONENTS

CONTENTS 4mL(15mL)¹ of an aqueous solution containing ammonium acetate

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
Ammonium acetate	631-61-8		

¹ Values in parenthesis relate to large kit 44201/02

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 alcohol resistant 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 2 - 8°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	None set

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	There are no unusual properties. The product's characteristics are very similar to water Liquid
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Component Part:**Reagent C**

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	Strong oxidising agents, strong acids
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions – Carbon oxides, nitrogen oxides

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	May be harmful if swallowed.
Long term exposure	Unlikely to cause harmful effects under recommended conditions of handling and use. No component of this product present at levels $\geq 0.1\%$ is identified as probable, possible or confirmed carcinogen by IARC

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 by ADR/RID; IMDG, IATA

15. REGULATORY INFORMATION

Not classified as Dangerous for Supply/Use

16. OTHER INFORMATION

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

The information and recommendations in this data sheet are to the best of our knowledge, information and belief accurate at the date of issue. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the users to determine the applicability, of such information or the suitability of the products for their own particular purpose.

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

COMPONENT NAME	Nucleon Resin
PRODUCT NUMBERS	44200/04, 44200/04
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	R36/37/38 Irritating to eyes, respiratory system and skin.
Special Risk Conditions	None Identified

3. INFORMATION ON COMPONENTS

CONTENTS	5.5mL (21mL) ¹ of an aqueous solution containing <20% potassium nitrate and potassium hydroxide		
CAS No	None assigned for the component		
EC No	None assigned for the component		
Use	For use in the extraction of DNA from blood and 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

¹ Values in parenthesis relate to large kit 44201/04

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

	Ensure suitable personal protection during removal of spillages.
Small 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

Component Part:**Nucleon Resin**

Flammable limits	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Specific gravity	Not Applicable

10. STABILITY & REACTIVITY

Stable	Under advised storage conditions 24months
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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 Nucleon resin is prepared in accordance with Directive EC 1907/2006; SI 2008 No 2852

The information and recommendations in this data sheet are to the best of our knowledge, information and belief accurate at the date of issue. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the users to determine the applicability, of such information or the suitability of the products for their own particular purpose.

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

COMPONENT NAME	Proteinase K
PRODUCT NUMBERS	44200/03, 44201/03
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	R36/37/38 Irritating to eyes, respiratory system and skin.
Special Risk Conditions	None Identified

3. INFORMATION ON COMPONENTS

CONTENTS 10mg (40mg)¹Proteinase K lyophilised powder in 2mL (8mL) tube.

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
Proteinase K	254-457-8	Xn	R36/37/38; R42

¹ Values in parenthesis relate to large kit 44201/03

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 15 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 alcohol resistant foam.
Fire fighting protective equipment	

6. ACCIDENTAL RELEASE MEASURES

	Ensure suitable personal protection during removal of spillages.
Small spillages	To clean the floor and all objects contaminated with this component use water. Avoid dust formation. Avoid breathing dust
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 dust formation. Use LEV where dust formation is possible 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 generally applicable, but where risk assessment shows air-purifying respirators are appropriate use dust mask type N95 or type P1 (EN 143).
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

Form	Powder, lyophilised
Colour	colourless
Odour	None

Component Part:**Proteinase K**

pH (Value)	Not Applicable
Boiling point (°C)	No data available
Flash Point (°C)	No data available
Flammable limits	No data available
Auto Ignition Temperature (°C)	No data available
Specific gravity	No data available

10. STABILITY & REACTIVITY

Stable	Under advised storage conditions 24months
Hazardous reactions	Avoid strong oxidizing agents
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known

11. TOXICOLOGICAL INFORMATION

Inhalation	May cause sensitisation by inhalation – S22
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 – S24, S36/37
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. S26
Ingestion	Unlikely to cause harmful effects under recommended conditions of handling and use
Long term exposure	No component of this product present at levels $\geq 0.1\%$ is identified as probable, possible or confirmed carcinogen by IARC. Prolonged exposure may cause Asthma

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 by ADR/RID, IMDG or IATA

15. REGULATORY INFORMATION

Not classified as Dangerous for Supply/Use

Hazard symbol Xn - Harmful

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

The information and recommendations in this data sheet are to the best of our knowledge, information and belief accurate at the date of issue. Nothing herein is to be construed as a warranty, expressed or implied. In all cases it is the responsibility of the users to determine the applicability, of such information or the suitability of the products for their own particular purpose.
