

MATERIAL SAFETY DATA SHEET

IDENTIFICATION OF THE SUBSTANCE/PREPARATION & COMPANY UNDERTAKING

PRODUCT NAME Genomic DNA extraction kit (Blood/non-chloroform)

PRODUCT NUMBERS 44100

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
Reagent A, Reagent B, Reagent C and Nucleon Resin

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

HAZARDOUS INGREDIENT(S) Listed below for each component

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

COMPONENT NAME	REAGENT A
PRODUCT NUMBERS	44100/01
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	Xn	R22,R41
Special Risk Conditions	None Identified	

3. INFORMATION ON COMPONENTS

CONTENTS	3 x 4500mL of an aqueous solution containing <2% Triton-X		
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
Triton X-100	9002-93-1	Xn	R22,R41

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
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Component Part:**Reagent A**

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 A 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	REAGENT B
PRODUCT NUMBERS	44100/02
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	None identified
Special Risk Conditions	None Identified

3. INFORMATION ON COMPONENTS

CONTENTS	55mL of an aqueous solution containing <5% EDTA and SDS
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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 blood. 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	R35,36/38

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

Component Part:**Reagent B**

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

Component Part:**Reagent B**

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

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Component Name**Reagent C**

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

Component Name**Reagent 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

	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	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

Component Name**Reagent C**

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	44100/04
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	16mL of an 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 blood. 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

	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
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Component Part:**Nucleon Resin**

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 Nucleon resin is prepared in accordance with Directive EC 1907/2006; SI 2008 No 2852

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