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Thermo Scientific™

GeneJET RNA Purification Kit



Catalog number: K0731

Related applications: [RNA Extraction](#) | [DNA Extraction](#)

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Catalog number K0731
Unit Size 50 preps
Price (ZAR) [Contact Us ›](#)

Catalog number K0732
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Description

Thermo Scientific GeneJET RNA Purification Kit is a simple and efficient system for purification of total RNA from mammalian cultured cells, tissue, human blood cells, bacteria, and yeast.

The kit utilizes a silica-based membrane technology in the form of a convenient spin column, eliminating the need for tedious cesium chloride gradients, alcohol precipitation, or toxic phenol-chloroform extractions.

RNA molecules longer than 200 nucleotides can be isolated with the GeneJET RNA Purification Kit in 15 minutes after the lysis step. The high-quality purified RNA can be used in a wide range of downstream applications, including RT-PCR, RT-qPCR, Northern blotting, and other RNA-based analyses.

Highlights

- **Universal** – can be used for both cell and tissue samples from a wide range of sources: mammalian blood, mammalian cell cultures, mammalian tissues, insect, yeast, and bacteria
- **Efficient** – high yields of total RNA.
- **Fast** – 15 minutes after lysis step
- **Pure** – an A260/280 ratio > 1.9
- **Convenient** – spin columns are capped and assembled with collection tubes

Applications

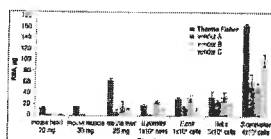
- Fast extraction of high purity RNA suitable for all conventional molecular biology procedures, including:
 - RT-PCR
 - RT-qPCR
 - Northern blotting
- Nuclease protection assayIncludes Proteinase K Lysis Buffer Wash Buffer 1 (concentrated) Wash Buffer 2 (concentrated) Water, nuclease-free GeneJET RNA Purification Columns (pre-assembled with Collection Tubes) Collection Tubes (2 ml) Collection Tubes (1.5 ml) Detailed Protocol

For Research Use Only. Not for use in diagnostic procedures.

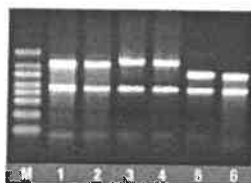
Figures



Overview of purification procedure



Yields of total RNA purified using the GeneJET RNA Purification Kit and kits of competitors



Total RNA from various sources purified using the GeneJET RNA Purification Kit

Specifications

For Use With (Application): Real-Time Quantitative PCR (qPCR), Reverse Transcriptase PCR (RT-PCR), Nuclease Protection Assays, Nucleic Acid Labeling, Northern Blotting, cDNA Library Construction

Purification Target: Total RNA

Sample Type: Bacteria, Yeast, Tissue, Cells, Blood

High-throughput Not High-throughput Compatible (Manual)

Compatibility:

Product Line: GeneJET

Documents

Manuals & protocols

User Guide: GeneJET RNA Purification Kit

Product literature

Brochure: Thermo Scientific Molecular Biology Workflow Solutions

Material safety data sheets (MSDS)

B12391F

B12981F

K0731COMPONENTB

K0731COMPONENTB

K0731COMPONENTB

K0731COMPONENTB

B12971F

C5003

K0731COMPONENTB

K0731COMPONENTB

K0731COMPONENTB

K0731COMPONENTB

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Certificates of analysis (COA)

Search for COA by lot number:

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Frequently asked questions (FAQs)

Are GeneJET spin columns or MagJET magnetic beads available separately?

► Answer

At what temperature should I perform centrifugation steps in the GeneJET kits?

► Answer

Can I use a vacuum manifold with GeneJET kits?

► Answer

Can I use water instead of Elution Buffer in the elution step of GeneJET and MagJET nucleic acid purification kits?

► Answer

Do the GeneJET RNA purification kits remove genomic DNA?

► Answer

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Citations & references

Rapid and simple method for purification of nucleic acids

R. Boom, C. J. A. Sol, M. M. M. Salimans, C. L. Jansen, P. M. E. W. Dillen, J. van der Noordaa.

J Clin Microbiol (1990) 28(3):495-503

Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction

P. Chomczynski, N. Sacchi.

Anal Biochem (1987) 162(1):156-159

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GeneJET PCR Purification Kit

Catalog number: K0702

4,155.00 / 250 preps

Add To Cart



GeneJET PCR Purification Kit

Catalog number: K0701

1,026.00 / 50 preps

Add To Cart



GeneJET Plasmid Miniprep Kit

Catalog number: K0502

900.00 / 50 preps

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Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code C3545
Product name Elution Buffer

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses
For research use only. Not for use in diagnostic procedures.

Uses advised against
Not for consumer use.

Company/undertaking identification

Thermo Fisher Scientific Baltics UAB
V. Graiciuno 8
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Fax.: +370 5 2602142

Life Technologies New Zealand Limited
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24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and
[or Dangerous Goods] Incident, Spill, Leak, Fire,
Exposure, or Accident. Call CHEMTREC
Outside the USA + Canada: 1-703-741-5970

Country Specific Emergency Number (if available):

Revision date 02-Sep-2019
Product code C3545

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Product name Elution Buffer

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CHEMTREC Malaysia (Kuala Lumpur) +60) 327884561 (Greeting Language: Malay)
CHEMTREC Philippines (Manila) 1-800-1-116-1020 (Toll Free) (Greeting Language: Tagalog)
CHEMTREC Philippines (Manila) +63) 632-395-3308 (Greeting Language: Tagalog)
CHEMTREC Saudi Arabia +966-8111095861 (Greeting Language: Arabic and English)
CHEMTREC Singapore 800-101-2201 (Toll Free) (Greeting Language: English and Mandarin)
CHEMTREC Singapore +65) 31581349 (Greeting Language: English)
CHEMTREC Australia (Sydney) +61) 290372994 (Greeting Language: English)
CHEMTREC New Zealand (Auckland) +64) 98010034 (Greeting Language: English)
CHEMTREC South Africa 0-800-983-611 (Greeting Language: English)
CHEMTREC Vietnam (Hanoi) +84) 444581771 (welcome Language: Vietnamese)

SECTION 2: Hazards identification

Australian SDS Statement

Not classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

GHS Classification

Health hazards
Not Hazardous

Physical hazards
Not Hazardous

Environmental hazards
Not Hazardous

Label elements

Signal Word
None

Hazard pictograms
None

Hazard pictograms names
None

Hazard Statements
Not Applicable

Precautionary Statements

Prevention
Not Applicable

Response
Not Applicable

Revision date 02-Sep-2019
Product code C3545

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Product name Elution Buffer

Storage
Not Applicable

Disposal
Not Applicable

Other hazards
Not Applicable

SECTION 3: Composition/Information on Ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Description of first aid measures

Skin contact
Rinse skin with water. Immediate medical attention is not required.

Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion
Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

Inhalation
Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Treat symptomatically.

Notes to Physician

Most important symptoms and effects, both acute and delayed

Not Applicable
Indication of any immediate medical attention and special treatment needed
None.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media
Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable extinguishing media
No information available.

Special hazards arising from the substance or mixture
Not known

Protective equipment and precautions for firefighters
Standard procedure for chemical fires.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Always wear recommended Personal Protective Equipment
Use personal protection equipment
See section 8 for more information

Environmental precautions
No special environmental precautions required.

Methods and material for containment and cleaning up
Soak up with inert absorbent material.

Reference to other sections
See section 8 for more information.

SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

Conditions for safe storage, including any incompatibilities
Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Specific end use(s)
For research use only. Not for use in diagnostic procedures.

SECTION 8: Exposure controls/personal protection

Control Parameters

Contains no substances with occupational exposure limit values.

Engineering Measures

Ensure adequate ventilation, especially in confined areas

Exposure controls

Personal Protective Equipment

Respiratory protection

In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

Hand protection Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

Eye protection Tight sealing safety goggles

Skin and Body Protection Wear suitable protective clothing

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls
No special environmental precautions required.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	liquid
Odour	No data available
Odour Threshold	No data
Molecular Weight	No data
pH	No data available
Melting point / melting range	°C No data °F No data
Boiling point / boiling range	°C No data °F No data
Flash point	°C No data °F No data
Autoignition Temperature	°C No data °F No data
Decomposition temperature	°C No data °F No data
Evaporation rate	No data
Flammability (solid, gas)	No data available
Upper explosion limit	No data
Lower explosion limit	No data
Vapour Pressure	No data
Vapour density	No data
Relative density	No data
Specific gravity	No data
Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity	No data
Explosive properties	No data
Oxidising properties	No data
Other Information	
No data available.	

SECTION 10: Stability and reactivity

Reactivity None known.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions Hazardous reaction has not been reported.

Conditions to avoid No information available.

Incompatible materials No dangerous reaction known under conditions of normal use.

Hazardous decomposition products No data available.

SECTION 11: Toxicological Information

Information on toxicological effects

There is no evidence available indicating acute toxicity.

Principal Routes of Exposure

Acute toxicity	Data are conclusive but insufficient for classification.
Skin corrosion/irritation	Data are conclusive but insufficient for classification
Serious eye damage/irritation	Data are conclusive but insufficient for classification
Respiratory or skin sensitisation	Data are conclusive but insufficient for classification
Specific target organ toxicity (STOT) – single exposure	Data are conclusive but insufficient for classification
Specific target organ toxicity (STOT) – repeated exposure	Data are conclusive but insufficient for classification
Carcinogenicity	Data are conclusive but insufficient for classification
Germ cell mutagenicity	Data are conclusive but insufficient for classification
Reproductive toxicity	Data are conclusive but insufficient for classification
Aspiration hazard	Data are conclusive but insufficient for classification

SECTION 12: Ecological Information

Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility in soil

No information available.

Persistence and degradability

No information available.

Biocumulative potential

No information available.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects

No information available.

SECTION 13: Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport Information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number

Not Applicable

UN proper shipping name

Not Applicable

Transport hazard class(es)

Not Applicable

Packing group

Not Applicable

Environmental hazards

Not Applicable

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL and the IBC Code
Not Applicable.

SECTION 15: Regulatory Information

International Inventories

Not Applicable.

Korea

Occupational Safety and Health Act

Not Applicable

Chemicals Control Act

Not Applicable

Act on Registration, Evaluation, etc. of Chemicals (K-REACH)

Not Applicable

Safety Control of Dangerous Substances Act

Not Applicable

Wastes Control Act

Not Applicable

Singapore

Not Applicable

Taiwan

Not Applicable

China

Not Applicable

SECTION 16: Other Information

Reason for revision

SDS sections updated.

Revision number

1

Revision date

02-Sep-2019

For research use only. Not for use in diagnostic procedures.

References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOU database: <https://www.chemadvisor.com/loi-database>

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End of Safety Data Sheet

Revision date 02-Sep-2019
Product code C3545

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Product name Eutdon Butler

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code C4584
Product name Binding Buffer

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses
For research use only.
Uses advised against
No information available.

Company/undertaking identification

Revision date 02-Sep-2019
Product code C4584

www.thermofisher.com

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Product name Binding Buffer

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Outside the USA + Canada: 1-703-741-5970

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CHEMTREC Vietnam (Hanoi) 0-800-983-611 (Greeting Language: English)
+ (84)-444581771 (welcome Language: Vietnamese)

SECTION 2: Hazards Identification

Australian SDS Statement

Classified as a hazardous substance in accordance with the criteria of Safe Work
Australia - Globally Harmonised System (GHS)

Revision date 02-Sep-2019
Product code C4584

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Page 2 / 9
Product name Binding Buffer

GHS Classification

Health hazards

Physical hazards

Environmental hazards

Label elements

Signal Word

Not Hazardous

Hazard pictograms

Precautionary Statements

Prevention
Not Applicable

Response
Not Applicable

Storage
Not Applicable

Disposal
Not Applicable

Other hazards
Not Applicable

SECTION 3: Composition/Information on Ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Revision date 02-Sep-2019
Product code C4594

www.thermofisher.com

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Product name Binding Buffer

SECTION 4: First aid measures

Description of first aid measures

Skin contact
Eye contact

Rinse skin with water. Immediate medical attention is not required.
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion
Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

Inhalation
Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Treat symptomatically.

Notes to Physician

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media
Unsuitable extinguishing media
Water spray, Carbon dioxide (CO₂), Foam, Dry chemical.
No information available.

Special hazards arising from the substance or mixture
None known

Protective equipment and precautions for firefighters
Standard procedure for chemical fires.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Always wear recommended Personal Protective Equipment
Use personal protection equipment
See section 8 for more information

Environmental precautions
No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

Methods and material for containment and cleaning up
Soak up with inert absorbent material.

Reference to other sections
See section 8 for more information.

Revision date 02-Sep-2019
Product code C4594

www.thermofisher.com

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Product name Binding Buffer

SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Specific end use(s)

For research use only.

SECTION 8: Exposure controls/personal protection

Control parameters

Engineering Measures

Ensure adequate ventilation, especially in confined areas

Exposure controls

Personal Protective Equipment

Respiratory protection

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection

Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

Eye protection

Tight sealing safety goggles

Skin and Body Protection

Wear suitable protective clothing

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No special environmental precautions required.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	liquid	
Odour	No data	
Odour Threshold	No data	
Molecular Weight	No data	
Melting point / melting range	°C No data	°F No data
Boiling point / boiling range	°C No data	°F No data
Flash point	°C No data	°F No data
Autoignition Temperature	°C No data	°F No data
Decomposition temperature	No data	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Upper explosion limit	No data	
Lower explosion limit	No data	
Vapour Pressure	No data	
Vapour density	No data	
Relative density	No data	
Specific gravity	No data	
Solubility	No data	
Partition coefficient: n-octanol/water	No data	
Viscosity	No data	
Explosive properties	No data	
Oxidising properties	No data	
Other information	No data.	

SECTION 10: Stability and reactivity

Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous reaction has not been reported.
Conditions to avoid	No information available.
Incompatible materials	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	No data available.

SECTION 11: Toxicological Information

Information on toxicological effects

Principal Routes of Exposure

Acute toxicity Data are conclusive but insufficient for classification.

Skin corrosion/irritation Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin sensitisation Data are conclusive but insufficient for classification

Specific target organ toxicity (STOT) – single exposure Data are conclusive but insufficient for classification

Specific target organ toxicity (STOT) – repeated exposure Data are conclusive but insufficient for classification

Carcinogenicity Data are conclusive but insufficient for classification

Germ cell mutagenicity Data are conclusive but insufficient for classification

Reproductive toxicity Data are conclusive but insufficient for classification

Aspiration hazard Data are conclusive but insufficient for classification

SECTION 12: Ecological Information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Mobility in soil No information available.

Persistence and degradability No information available.

Bioaccumulative potential No information available.

Results of PBT and vPvB assessment
No information available.

Other adverse effects No information available.

SECTION 13: Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport Information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number

Not Applicable

UN proper shipping name

Not Applicable

Transport hazard class(es)

Not Applicable

Packing group

Not Applicable

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL and the IBC Code

Not Applicable.

SECTION 15: Regulatory Information

International Inventories

Korea.

Occupational Safety and Health Act

Chemicals Control Act

Revision date 02-Sep-2019
Product code C4584

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Product name Binding Buffer

Revision date 02-Sep-2019
Product code C4584

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Product name Binding Buffer

Act on Registration, Evaluation, etc. of Chemicals (K-REACH)

Safety Control of Dangerous Substances Act

Wastes Control Act

Singapore

Taiwan

China

SECTION 16: Other information

Reason for revision

SDS sections updated.

Revision number

1

Revision date

02-Sep-2019

For research use only. Not for use in diagnostic procedures.

References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- IOL database: <https://www.chemadvisor.com/iol-database>

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End of Safety Data Sheet

Revision date 02-Sep-2019
Product code C4584

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Product name Binding Buffer

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code C4591
Product name Wash Buffer (concentrated)

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses
For research use only. Not for use in diagnostic procedures.

Uses advised against
Not for consumer use.

Company/undertaking identification

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1800 636 327

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for Dangerous Goods/ Incident, Spill, Leak, Fire,
Exposure, or Accident, Call CHEMTREC
1-703-527-3887

Outside the USA + Canada: 1-703-741-5970

Country Specific Emergency Number (if available):

Revision date 02-Sep-2019
Product code C4591

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Product name Wash Buffer (concentrated)

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CHEMTREC Philippines 1-800-1-116-1020 (Toll Free) (Greeting Language: Tagalog)
CHEMTREC Philippines (Manila) + (63) 632-395-3308 (Greeting Language: Tagalog)
CHEMTREC Saudi Arabia + (966)-8111095861 (Greeting Language: Arabic and English)
CHEMTREC Singapore 800-101-2201 (Toll Free) (Greeting Language: English and Mandarin)
CHEMTREC Singapore + (65)-31581349 (Greeting Language: English and Mandarin)
CHEMTREC Australia (Sydney) + (61)-290372994 (Greeting Language: English)
CHEMTREC New Zealand (Auckland) + (64)-98010034 (Greeting Language: English)
CHEMTREC South Africa 0-800-983-611 (Greeting Language: English)
CHEMTREC Vietnam (Hanoi) + (84)-444581771 (Welcome Language: Vietnamese)

SECTION 2: Hazards Identification

Australian SDS Statement

Not classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

GHS Classification

Health hazards
Not Hazardous

Physical hazards
Not Hazardous

Environmental hazards
Not Hazardous

Label elements

Signal Word
None

Hazard pictograms
None

Hazard pictograms names
None

Hazard Statements
Not Applicable

Precautionary Statements

Prevention
Not Applicable

Response
Not Applicable

Storage

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Not Applicable

Disposal
Not Applicable

Other hazards
Not Applicable

SECTION 3: Composition/Information on Ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Description of first aid measures

Skin contact
Rinse skin with water. Immediate medical attention is not required.

Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion
Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

Inhalation
Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Treat symptomatically.

Notes to Physician

Most important symptoms and effects, both acute and delayed

Not Applicable
Indication of any immediate medical attention and special treatment needed
None.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media
Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable extinguishing media
No information available.

Special hazards arising from the substance or mixture
Not known

Protective equipment and precautions for firefighters
Standard procedure for chemical fires.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Always wear recommended Personal Protective Equipment
Use personal protection equipment
See section 8 for more information

Environmental precautions
No special environmental precautions required.

Methods and material for containment and cleaning up
Soak up with inert absorbent material.

Reference to other sections
See section 8 for more information.

SECTION 7: Handling and storage

Precautions for safe handling
Use personal protective equipment as required. No special handling advices are necessary.

Conditions for safe storage, including any incompatibilities
Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Specific end use(s)
For research use only. Not for use in diagnostic procedures.

SECTION 8: Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Engineering Measures

Ensure adequate ventilation, especially in confined areas

Exposure controls

Personal Protective Equipment

Respiratory protection
In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection	Wear suitable gloves Glove material: Compatible chemical-resistant gloves.
Eye protection	Tight sealing safety goggles
Skin and Body Protection	Wear suitable protective clothing
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls
No special environmental precautions required.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	liquid
Odour	No data available
Odour Threshold	No data
Molecular Weight	No data
pH	No data available
Melting point / melting range	°C No data °F No data
Boiling point / boiling range	°C No data °F No data
Flash point	°C No data °F No data
Autoignition Temperature	°C No data °F No data
Decomposition temperature	°C No data °F No data
Evaporation rate	No data
Flammability (solid, gas)	No data available
Upper explosion limit	No data
Lower explosion limit	No data
Vapour Pressure	No data
Vapour density	No data
Relative density	No data
Specific gravity	No data
Solubility	No data available
Partition coefficient:	No data available
n-octanol/water	No data
Viscosity	No data
Explosive properties	No data
Oxidising properties	No data

Other information
No data available.

SECTION 10: Stability and reactivity

Reactivity	None known.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous reaction has not been reported.
Conditions to avoid	No information available.
Incompatible materials	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	No data available.

SECTION 11: Toxicological information

Information on toxicological effects

There is no evidence available indicating acute toxicity.

Principal Routes of Exposure	
Acute toxicity	Data are conclusive but insufficient for classification.
Skin corrosion/irritation	Data are conclusive but insufficient for classification
Serious eye damage/irritation	Data are conclusive but insufficient for classification
Respiratory or skin sensitisation	Data are conclusive but insufficient for classification
Specific target organ toxicity (STOT) – single exposure	Data are conclusive but insufficient for classification
Specific target organ toxicity (STOT) – repeated exposure	Data are conclusive but insufficient for classification
Carcinogenicity	Data are conclusive but insufficient for classification
Germ cell mutagenicity	Data are conclusive but insufficient for classification
Reproductive toxicity	Data are conclusive but insufficient for classification
Aspiration hazard	Data are conclusive but insufficient for classification

SECTION 12: Ecological Information

Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Mobility in soil

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other adverse effects

No information available.

SECTION 13: Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport Information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number

Not Applicable

UN proper shipping name

Not Applicable

Transport hazard class(es)

Not Applicable

Packing group

Not Applicable

Environmental hazards

Not Applicable

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL and the IBC Code

Not Applicable.

SECTION 15: Regulatory Information

International Inventories

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Not Applicable.

Korea.

Occupational Safety and Health Act

Not Applicable

Chemicals Control Act

Not Applicable

Act on Registration, Evaluation, etc. of Chemicals (K-REACH)

Not Applicable

Safety Control of Dangerous Substances Act

Not Applicable

Wastes Control Act

Not Applicable

Singapore.

Not Applicable

Taiwan.

Not Applicable

China.

Not Applicable

SECTION 16: Other Information

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Reason for revision

SDS sections updated.

Revision number

1

Revision date

02-Sep-2019

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References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- IOL database: <https://www.chemadvisor.com/ioli-database>

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

End of Safety Data Sheet

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Thermo Scientific™

GeneJET PCR Purification Kit



Catalog number: K0701

Related applications: DNA Extraction

Contact us for support >

Catalog number	K0701	Unit Size	50 preps	Price (ZAR)	1,026.00	Your price: Sign In	Availability	***	Qty	
Catalog number	K0702	Unit Size	250 preps	Price (ZAR)	4,155.00	Your price: Sign In	Availability	***	Qty	

Description

Thermo Scientific GeneJET PCR Purification kit utilizes a proprietary silica-based membrane technology in the form of a convenient spin column, eliminating the need for tedious resin manipulations or toxic phenol-chloroform extractions. It effectively removes primers, dNTPs, unincorporated labeled nucleotides, enzymes, and salts from PCR and other reaction mixtures. The kit can be used for purification of DNA fragments from 25 bp to 20 kb with recovery rates up to 100%. Each GeneJET purification column has a total binding capacity of up to 25 µg of DNA, and the entire procedure takes 5 minutes. The purified DNA can be used in common downstream applications, such as sequencing, restriction digestion, labeling, ligation, cloning, *in vitro* transcription, blotting or *in situ* hybridization.

Highlights

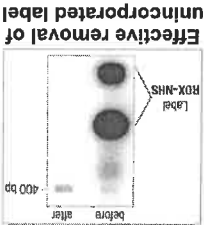
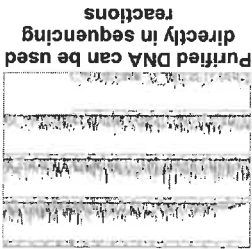
- Highly efficient: 90 to 100% recoveries in the range of 100 bp to 10 kb
- Fast: procedure takes only 5 minutes
- Convenient: spin columns are capped and assembled with collection tubes

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- Fast and efficient purification of DNA fragments ideal for use in all conventional molecular biology procedures including:
 - FastDigest or conventional restriction digestion
 - Automated fluorescent or radioactive sequencing
 - PCR
 - *In vitro* transcription
 - *In situ* hybridization
 - Labeling
 - Cloning

View less

Figures



For Research Use Only. Not for use in diagnostic procedures.

Specifications

For Use With (Application):	Real-Time Quantitative PCR (qPCR), Cloning, Southern Blotting, Nucleic Acid Labeling, Sequencing, PCR, <i>In Vitro</i> Transcription
Purification Target:	DNA from Enzymatic Reactions (e.g. PCR)
Sample Type:	dsDNA
Quantity:	50 Preps
High-throughput Compatibility:	Not High-throughput Compatible (Manual)
Product Line:	GeneJET

Documents

Manuals & protocols

User Guide: GeneJET PCR Purification Kit

Product literature

Application Note: Increase efficiency with GeneJET, PureLink, and ChargeSwitch kits

Brochure: Thermo Scientific Molecular Biology Workflow Solutions

Material safety data sheets (MSDS)

C3545

C4584

C4591

Certificates of analysis (COA)

Search for COA by lot number:

Search

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Frequently asked questions (FAQs)

Are GeneJET spin columns or MagJET magnetic beads available separately?
▶ Answer

At what temperature should I perform centrifugation steps in the GeneJET kits?
▶ Answer

Can I use a vacuum manifold with GeneJET kits?
▶ Answer

Can I use GeneJET PCR Purification Kit for DNA gel extraction?
▶ Answer

Can I use GeneJET PCR Purification Kit for enzymatic clean-up?
▶ Answer

[View more >](#)

Customers who viewed this item also viewed



GeneJET Plasmid Miniprep Kit
Catalog number: K0502

900.00 / 50 preps

[Add To Cart](#)



GeneJET Genomic DNA Purification Kit
Catalog number: K0722

6,480.00 / 250 preps

[Add To Cart](#)



PureLink™ PCR Micro Kit
Catalog number: K310250

6,140.00 / 250 preps

[Add To Cart](#)