

MATERIAL SAFETY DATA SHEET

Clean-Easy™ Agarose Purification Kit

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. PRODUCT DETAILS

Trade Name: Clean-Easy™ Agarose Purification Kit

Catalog Number: AN0070-S, AN0070, AN0071, AN0071-XL

1.2. COMPANY DETAILS

Supplier: Canvax Reagents S.L., Luis de Mercado St. 19, Boecillo Technological Park, Valladolid (Spain)

1.3. EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: +34 931768545

2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (67/548/CEE) or (1999/45/CE):

Acute Toxicity Oral (Category 4)

H302: Harmful if swallowed

Skin irritant (Category 2)

H315: Causes skin irritation

Physical Hazards: Not classified.

Health Hazards: See section 2.2.

Environmental Hazards: Not classified.

2.2. LABEL ELEMENTS



H302 + H332 Harmful if swallowed or inhaled.

H315 Causes skin irritation

H317 May cause allergic skin reaction

H318 May cause severe eye damage

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

2.3. PREVENTIVE ADVICE

P261:P305 + P310 + P338 + P351 IN CASE OF EYE CONTACT: Rinse cautiously with water for at least 15 minutes. Remove contact lenses and continue rinsing. Call a toxicological center/doctor immediately if respiratory symptoms persist.



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P311 + P342 IN CASE OF RESPIRATORY SYMPTOMS: Call a POISON CENTER/doctor if the person is unwell.

P362 + P364 Take off contaminated clothing and wash it before reuse.

2.4. OTHER HAZARDS

None known

3. CHEMICAL CHARACTERIZATION

Substance	CAS-no.	Weight %	Classification according to (67/548/CEE) or (199/45/CE)
Acetic acid	64-19-7	< 5%	Acute Tox 4, H302 Skin Irrit. 2, H315
Anhydrous calcium chloride	7440-70-2	< 1%	
DNase I	9003-98-9	< 5%	
EDTA	6381-92-6	< 10%	
Glycerol	56-81-5	< 1 %	
Guanidine Hydrochloride	50-01-1	< 50%	
Guanidine Thiocyanate	593-84-0	< 60%	
Magnesium chloride	7791-18-6	< 1%	
Nuclease, deoxyribose-	9003-98-9	< 90%	
Red phenol	143-74-8	< 1%	
Potassium acetate	127-08-2	< 1%	
Proteinase K	39450-01-6	< 5%	
Ribonuclease A	9001-99-4	< 5%	
Sodium acetate	127-09-3	< 2%	
Sodium chloride	7647-14-5	≤ 2.33%	
Sodium dodecyl sulphate	151-21-3	< 8%	
Tris hydrochloride	1185-53-1	≤ 7.88%	
Triton X-100	9002-93-1	< 50%	
Tween 20	9005-64-5	< 1%	

4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Inhalation: Remove affected person immediately to fresh air. Get medical attention.

Ingestion: Remove affected person to fresh air and keep warm and at rest in a position comfortable for comfortable breathing position. Rinse mouth with water. Provide water to drink (maximum 2 glasses). Get medical attention if any discomfort continues.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. Get medical attention if any discomfort continues.

Eye contact: Flush immediately with plenty of water. Remove contact lenses and hold eyelids wide apart. Continue rinsing for at least 15 minutes. Get medical attention immediately. Continue rinsing.



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4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No data available.

5. FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

No restriction.

Suitable extinguishing media: Water Foam Carbon dioxide (CO₂) Dry Powder.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Carbon oxides (CO_x)
Sulphur oxides (SO_x)

5.3. ADVICE FOR FIRE FIGHTERS

In case of fire, wear positive pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2. ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. REFERENCE TO OTHER SECTIONS

For possible material restrictions: see section 7 or 10.
For disposal: see section 13

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

See section 2.2.



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7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed in a dry, cool, well-ventilated place. Store at room temperature.

7.3. SPECIFIC END USE(S)

Not available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Components with environmental exposure limit values for occupational exposure. No exposure limit value known.

8.2. EXPOSURE CONTROLS

Special protective equipment



Eye/face protection: The following protection should be worn: safety goggles. Wear eye protection equipment tested and approved according to the appropriate governmental standards, such as as NIOSH (USA) or EN 166 (EU).

Hand protection: It is recommended that gloves be made of the following materials: Nitrile rubber. Inspect gloves for chemical breakdown and replace them at regular intervals. Wash your hands with mild soap and water before eating, drinking and when leaving work.

Other skin and body protection: Wear rubber apron. Wear rubber footwear. Avoid skin contact by wearing chemical resistant gloves, a lab coat and other protective equipment depending on the conditions of use. Clean protective equipment regularly. Wash other areas of exposure with mild soap and water before eating, drinking and when leaving work. Have a safety shower available.

Respiratory protection: If ventilation is insufficient, suitable respiratory protection should be worn. A respiratory protection program should be followed that complies with the requirements of 29 CFR 1910.134 and ANSI Z88.2 of OSHA whenever workplace conditions warrant the use of a respirator.

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless, Liquid.

Odour: No data available.

pH: Buffers at different pH ranges

Solubility: No data available.

Initial boiling point and boiling range: RNase-free water: 100 °C

Vapour pressure: RNase-free water: 23 hPa (20 °C)

9.2. OTHER INFORMATION

Not determined.



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10. STABILITY AND REACTIVITY

10.1. REACTIVITY

Valid in general for combustible organic substances and mixtures: in case of fine spreading, in swirled state, to be counted under general explosion hazard.

10.2. CHEMICAL STABILITY

Stable at normal room temperature and when used as recommended. The product is chemically stable under normal conditions (at ambient temperature).

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Not determined.

10.4. CONDITIONS TO AVOID

Strong acids and oxidizing agents, bases

10.5. INCOMPATIBLE MATERIALS

Not determined.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity:

Guanidine-hydrochloride

Oral toxicity: LD50 rat 475 mg/kg, LD50 mouse 571 mg/kg

Toxicity (inhalation): LC50 female rat 3.2 mg/l (4 h), LC50 male and female rat 5.4 mg/l (4 h), LD50 male rat 7.7 mg/l (4 h)

Toxicity (skin corrosion/irritation): LD50 rabbit >2001 mg/kg

Triton X-100

Oral toxicity: LD50 rat 1900-5000 mg/kg.

Toxicity (skin corrosion/irritation): LD50 rabbit >3000 mg/kg

Sodium dodecyl sulphate

Oral toxicity: LD50 rat 1288 mg/kg.

Toxicity (skin corrosion/irritation): LD50 >10 mg/kg

EDTA

Oral toxicity: LD50 rat 2000 mg/kg, LD50 rabbit 2300 mg/kg



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Sodium hydroxide

Oral toxicity: LD50 rabbit 500 mg/kg

Primary irritant effect:

- On the skin: Irritant to skin and mucous membranes.
- On the eye: Irritating effect.
- Sensitization: No sensitizing effects known.

Additional toxicological information:

The substance/mixture does not contain components that have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

Based on our information, we believe that the chemical, physical and toxicological properties have not been adequately investigated. Hazardous characteristics cannot be excluded but are unlikely if handled properly.

12. ECOLOGICAL INFORMATION

Ecotoxicity: The components of the product are not classified as hazardous to the environment. Large or frequent spills may have harmful effects on the environment.

12.1. TOXICITY

It is not considered toxic to fish.

12.2. PERSISTENCE AND DEGRADABILITY

There are no data on the degradability of this product.

12.3. BIOACCUMULATION POTENTIAL

No data on bioaccumulation.

12.4. MOBILITY IN THE SOIL

The product is soluble in water.

12.5. PBT AND vPvBm ASSESSMENT RESULTS

This product does not contain substances classified as PBT or vPvB to levels of 0.1% or higher.

12.6. OTHER ADVERSE EFFECTS

The substance/mixture does not contain components that have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1 % or higher.

Do not allow undiluted product or large quantities of it to reach groundwater, watercourses or drain systems.

13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Do not contaminate ponds, waterways or ditches with chemicals or used containers, send them to a licensed waste management company. Following Waste Directive 2008/98 note / EC:

General information: Waste should be treated as hazardous waste. Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority.



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Disposal methods: Dispose of waste to an authorized landfill in accordance with the requirements of the local Waste Disposal Authority. Do not mix with other waste. Handle soiled containers like the product itself.

14. TRANSPORT INFORMATION

14.1. UN-NUMBER

No information required.

14.2. UN PROPER SHIPPING NAME

Non-hazardous goods.

14.3. TRANSPORT HAZARD CLASS(ES)

No information required.

14.4. PACKAGING GROUP

No information required

14.5. ENVIRONMENTAL HAZARDS

Hazardous pollutant substance/marine pollutant: No.

14.6. SPECIAL PRECAUTIONS FOR USER

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II MARPOL73/78 AND THE IBC CODE

No information required.

15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

National Provisions: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU Legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures (as amended).

Guidance: CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. CHEMICAL SAFETY ASSESSMENT

Any chemical safety assessment has been carried out.



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16. OTHER INFORMATION

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date: 13/02/2024

Revision: 01

Date of replacement: No previous revision.

