

26 July 2017

Kit Components

Product Code	Description
QEF81050	QuickExtract™ FFPE DNA Extraction Kit

Components

QuickExtract™ FFPE DNA Extraction Solution
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Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 07/08/2017 Version: X.0

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

1.1. Product identifier

Product name : QuickExtract™ FFPE DNA Extraction Solution

Product form : Mixture

Product code : This component is part of the QuickExtract[™] FFPE DNA Extraction Kit (QEF81050,

QEF81085).

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

Use of the substance/mixture : Laboratory chemical.

1.3. Details of the supplier of the safety data sheet

Lucigen Corporation 2905 Parmenter Street Middleton, WI 53562 U.S.A. Phone: (608) 831-9011

Fax: (608) 831-9012

E-mail: techserv@lucigen.com

1.4. Emergency telephone number

Emergency number : 1-888-575-9695 (Lucigen: Monday-Friday, 8:00AM-5:00PM)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not a hazardous substance or mixture.

2.2. Label elements

Not a hazardous substance or mixture.

2.3. Other hazards

Irritant to eyes and skin.

2.4. Unknown acute toxicity (GHS-US)

No data available.

SECTION 3: Composition/information on ingredients

3.2. Mixture.

Name	Product identifier	%
Tris Hydrochloride, CAS# 77-86-1	Ingredient in product.	0.1-10%
EC# 201-064-4		
Chemical Formula: C ₄ H ₁₁ NO ₃		
Molecular Weight: 121.14 g/mol		
Synonyms: Tris Base, Tris HCl, 2-Amino-2-(hydroxymethyl)-		
1,3-propanediol, THAM, Trometamol,		
Tris(hydroxymethyl)aminomethane		

SECTION 4: First aid measures

First-aid measures after skin contact

4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, consult a physician. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious

attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing. If not breathing, give artificial respiration. Consult a physician.

: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin for at least 15

minutes with tepid water. Consult a physician.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of tepid water for at least 15 minutes. Remove

contact lenses if present and easy to do so. Continue rinsing. Consult a physician.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth thoroughly and consult a physician. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant acute hazard under anticipated conditions of normal use.

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Symptoms/injuries after inhalation : May cause upper respiratory irratation.

Symptoms/injuries after skin contact : May cause skin irritation, redness, swelling, blistering, and pain.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating, can cause eye irritation, redness, and pain.

Symptoms/injuries after ingestion : May cause irritation to the mouth, throat, and gastrointestinal tract.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, carbon dioxide, dry chemical powder, alcohol-resistance foam, or other

appropriate foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Emits irritating or toxic fumes under fire conditions. Explosion hazard : Emits irritating or toxic fumes under fire conditions.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Wear self-contained breathing apparatus and protective clothing to prevent contact with skin

and eves.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ventilate area. Evacuate area. Keep upwind. Spill should be handled by trained clean-up crews

properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

If liquid evaporates, avoid dusty conditions.

6.1.1. For non-emergency personnel

Protective equipment : Wear Personal Protective Equipment as described in Section 8.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves, respirator, and eye or face protection. For further

information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or inert absorbents (e.g., sand or vermiculite) to prevent migration

and entry into sewers or streams.

Methods for cleaning up : Soak up spills immediately with inert absorbants, such as sand or vermiculite as soon as

possible. Place in closed waste container for disposal. This material and its container must be

disposed of in a safe way, and as per local, state, and federal legislation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wear recommended personal protective equipment. Wash hands and other exposed areas with mild soap and water

after handling material, leaving the laboratory, before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at -20°C in a freezer without a defrost cycle. Thawed extraction solution can be stored at

4°C for 1 month or refrozen in small aliquots.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limits.

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8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust

ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas. Emergency safety shower and eye wash station should be available. Avoid prolonged or repeated exposure.

Personal protective equipment : Gloves. Protective goggles. Laboratory Coat.



Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could

occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suitable gloves for this specific application can be recommended by the glove supplier. Suggested glove

materials are: Neoprene, Nitrile.

Eye protection : Safety goggles should be worn when working with mixture. Avoid direct contact with eyes.

Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls as needed to minimize bodily

xposure.

Respiratory protection : Use NIOSH/MSHA-approved dust/particulate respirator. Where vapor, mist, or dust exceed

PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment. Do not

breathe in vapour, mist, or dust.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid containing dissolved material, powders, viscous

Color : Colorless

Odor : No data available
Odor Threshold : No data available

pH : 7.5

: No data available Melting point No data available Freezing point No data available Boiling point Flash point : No data available Relative evaporation rate : No data available Flammability (solid, gas) : No data available Vapour pressure No data available Relative vapour density at 20°C : No data available Relative density : No data available Solubility in Water : No data available Log Pow : No data available : No data available Log Kow Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic No data available Viscosity, dynamic No data available

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Explosive properties

Oxidising properties

Explosive limits

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

None known. Hazardous plymerization does not occur.

: No data available

: No data available

: No data available

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10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong oxidiants, strong acids, aluminum, copper, and brass.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, and nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : No data available
Skin corrosion/irritation : No data available
Serious eye damage/irritation : No data available
Respiratory or skin sensitisation : No data available
Germ cell mutagenicity : No data available

Carcinogenicity : IARC – No component of this product present at levels greater than or equal to 0.1% is

dientified as probablye, possible, or confirmed human carcinogen by IARC.

ACGIH - No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by ACGIH.

NTP - No component of this product present at levels greater than or equal to 0.1% is identified

as a known or anticpated carcinogen by NTP.

OSHA – No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinoen or potential carcinogen by OSHA.

Reproductive toxicity : No data available
Specific target organ toxicity (single exposure) : No data available
Specific target organ toxicity (repeated : No data available

exposure)

Aspiration hazard : No data available

Symptoms/injuries after inhalation : May cause upper respiratory irratation.

Symptoms/injuries after skin contact : May cause skin irritation, redness, swelling, blistering, and pain.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : May cause irritation to the mouth, throat, and gastrointestinal tract.

Additional Information : Skin contact may cause chronic dermatitis.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Obtain the consent of pollution control authorities before discharging to wastewater treatment

plants. Product should not be discharged to surface waters without a NPDES permit.

Waste disposal recommendations : Dispose in a safe manner in accordance with local, state, and federal regulations. Avoid

releasing in to drains, sewers, and the environment.

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SECTION 14: Transport information

DOT

Not hazardous for transport

IMDG

No additional information available

IATA

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

No SARA Hazards

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

15.2. International regulations.

None

15.3. US State regulations

California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

New Jersey Right to Know Hazardous Substance List

Tris (hydroxymethyl) aminomethane, CAS 77-86-1

Pennsylvania Right to Know List

Tris (hydroxymethyl) aminomethane, CAS 77-86-1

SECTION 16: Other information

Indication of changes : Revision X.0: Updated format.

Revision date : 07/08/2017 Other information : Author:

NFPA health hazard : 1 – Exposure would cause irritation with only minor residual

injury.

NFPA fire hazard : 1 – Materials that require considerable preheating, underal

all ambient temperature conditions, before ignition and combustion can occur. Includes some finely divided suspended solids that do not require heating before ignition

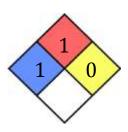
can occur. Flash point at or above 93.3°C.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



Health : 1
Flammability : 1
Physical Hazard : 0
Personal Protection : :



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This information is disclosed to the best of Lucigen's knowledge. This document does not constitute a contractual relationship with product end users or handlers with respect to the possible presence of hazards in this item. Disposal should be in accordance with applicable regional, national and local laws and regulations.