Novel Express qPCR Reagent

1. Identification of the substance/mixture and of the company/undertaking

Preparation Name:

Novel Express qPCR Reagent

Product code: QP002-0100A

Use of the preparation: For laboratory use.

Suitable for use as molecular weight standards for SDS-PAGE electrophoresis.

Company identification: BIO-HELIX Co.,LTD.

Site: http://www.bio-helix.com E-mail: info@bio-helix.com

For research use only. Not intended for human or animal diagnostic or therapeutic uses

2. Hazards identification

GHS – Classification

Signal Word	Health Hazard	Physical Hazards
not hazardous	not hazardous	not hazardous

Principle Routes of Exposure/

Potential Health effects

Eves May cause eye irritation with susceptible persons.

Skin May cause skin irritation in susceptible persons. s. Components of

the product may be absorbed into the body through the skin.

May be harmful by inhalation. Inhalation May be harmful if swallowed. Ingestion

Specific effects

Carcinogenic effects

none

Mutagenic effects Substances which cause concern for man owing to possible mutagenic

effects but for which the available information is not adequate for

making a satisfactory assessment.

Reproductive toxicity none Sensitization none

No known effects under normal use conditions. **Target Organ effects**

HMIS

Health	Flammability	Reactivity
0	0	0

3. Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
dimethylsulfoxide	67-68-5	200-664-3	0.1-1
glycerol	56-81-5	200-289-5	3-7
Novel Green			<0.1
Mastermix			

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



4. First aid measures

Skin contact Rinse with plenty of water. If symptoms arise, call a physician Rinse immediately with plenty of water, also under the eyelids, Eye contact

for at least 15 minutes. Consult a physician.

Never give anything by mouth to an unconscious person. If symptoms Ingestion

persist, call a physician. Do not induce vomiting without medical advice.

Inhalation Move to fresh air. If symptoms persist, call a physician. If not breathing,

give artificial respiration.

Treat symptomatically. Notes to physician

5. Fire-fighting measures

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

Special protective Wear self-contained breathing apparatus and protective suit.

equipmentfor firefighters

6. Accidental release measures

Personal precautions Use personal protective equipment. Methods for cleaning up Soak up with inert absorbent material.

Environmental precautions Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

7. Handling and storage

Handling Always wear reccommended Personal Protective Equipment.

No special handling advice required.

Keep in a dry, cool and well-ventilated place **Storage**

8. Exposure controls/personal protection

Exposure limits

<u>Chemical Name</u>	OSHA PEL	OSHA PEL(Ceiling)	ACGIH OEL(TWA)	ACGIH OEL(STEL)
dimethylsulfoxide	none	none	none	none
glycerol	15 mg/m	none	10 mg/m3	none
	5 mg/m3		_	
Novel Green	none	none	none	none

Mastermix

Ensure adequate ventilation, especially in confined areas **Engineering measures**

Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk

assessment and are specific to the risk assessment for each laboratory

where this material may be used.

In case of insufficient ventilation wear suitable respiratory equipment. Respiratory

Hand protection Impervious gloves.

Safety glasses with side-shields Eye protection

Skin and body protection Lightweight protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice **Environmental exposure**

Prevent product from entering drains.

Controls



9. Physical and chemical properties

General Information

Form liquid

Appearance No information available Odor No information available

Boiling Point/Range °C no data available °F no data available Melting point/range °C no data available °F no data available Flash point °C no data available °F no data available Autoignition temperature °C no data available °F no data available

Oxidizing properties No information available

Water solubility soluble

10. Stability and reactivity

Stability Stable under normal conditions.

Materials to avoid No dangerous reaction known under conditions of normal use

Hazardous decomposition No information available

products

polymerization Hazardous polymerisation does not occur.

11. Toxicological information

Acute toxicity

Chemical Name	LD50	LD50	LC50	
	(oral,rat/mouse)	(dermal,rat/rabbit)	(inhalation,rat/mouse)	
dimethylsulfoxide	14500 mg/kg (Rat)	no data available	no data available	
glycerol	12600 mg/kg Oral	no data available	no data available	
Novel Green	no data available	no data available	no data available	
Mastermix				

Principle Routes of Exposure/

Potential Health effects

Eyes May cause eye irritation with susceptible persons
Skin May cause skin irritation in susceptible persons

Components of the product may be absorbed into the

body through the skin.

Inhalation May be harmful by inhalation Ingestion May be harmful if swallowed.

Carcinogenic effects none

Mutagenic effects

Substances which cause concern for man owing to

possible mutagenic effects but for which the available information is not adequate for making a satisfactory

assessment.

Reproductive toxicity none Sensitization none

Target Organ Effects No known effects under normal use conditions.

12. Ecological information

Ecotoxicity effects Daphnia magna (Water flea)

Mobility see log Pow



Biodegradation Bioaccumulation Chemical Name	Freshwater Algae Data	Inherently bid Does not bida Water Flea Data	•	Microtox Data	log Pow
dimethylsulfoxide 67-68-5	Skeletonema costatum EC5012350 -25500 mg/L (96 h)	species EC50=7000			logPow-2.03
glycerol		Daphnia 56-81-5 magr EC50>500 mg/L (24h)	na		logPow-1.76

13. Ecotoxicity effects

Dispose of in accordance with local regulations

14. Transport information

IATA

Proper shipping name Not classified as dangerous in the meaning of transport

Hazard class none
Subsidiary Class none
Packing group none
UN-No none

15. Regulatory information

Component TSCA dimethylsulfoxide 67-68-5 (0.1-1) Listed glycerol 56-81-5 (3-7) Listed Novel Green Mastermix (<0.1) --

SARA 313 This product is not regulated by SARA

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

U.S. State Regulations

U.S. Federal Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois - RTK	Rhode Island
	s - RTK	-RTK	-RTK		-RTK
dimethylsulfoxide					
glycerol	Listed		Listed		Listed
Novel Green					
Mastermix					

California Proposition 65

This product does not contain chemicals listed under Proposition 65

WHMIS Hazard Class

Non-controlled



This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required y the CPR

16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal herapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or osmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

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 be present unknown hazards and should be used with caution. Since GenedireX Corporation 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.

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