

KIT COMPONENTS

| Product code | Product Name |
|------------------------|------------------------------------|
| 95079-100 95079-500 | qScript™ One-Step Fast qRT-PCR Kit |

Components

| | |
|-----------------|-----------------------------|
| 84099 84100x | qScript™ 1-Step Fast RT |
| 84103 84104 | 1-Step Fast Master Mix (4X) |
| 84007 | Nuclease-Free Water |

1. PRODUCT AND COMPANY IDENTIFICATION

Product code 84099, 84100
Product name qScript™ 1-Step Fast RT

Manufacturer
QUANTA BIOSCIENCES INC.
202 PERRY PKWY., SUITE 1
GAITHERSBURG, MD 20877
800-364-2149

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Components

| Chemical Name | CAS No. | Weight % |
|---------------|---------|----------|
| GLYCEROL | 56-81-5 | 40-60% |

3. HAZARDS IDENTIFICATION

Emergency Overview

Irritating to eyes. Irritating to skin.

Form
Liquid

**Principal Routes of Exposure/
Potential Health Effects**

Eyes May cause eye irritation with susceptible persons.
Skin May cause skin irritation in susceptible persons.
Inhalation No information available
Ingestion No information available

Specific Effects

Carcinogenic effects No information available
Mutagenic effects No information available
Reproductive toxicity No information available
Sensitization No information available

Target Organ Effects

Eyes. Skin.

HMIS

Health 1
Flammability 1
Reactivity 0

4. FIRST AID MEASURES

Skin contact Wash off immediately with plenty of soap and water. If irritation develops, get medical attention.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists, get medical attention.

Ingestion Never give anything by mouth to an unconscious person

Inhalation Move to fresh air

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Dry chemical
Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Handling No special handling advice required
Storage Keep in properly labeled containers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

Exposure limits

| Chemical Name | OSHA PEL (TWA) | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|---------------|--|--------------------|----------------------|------------------|
| GLYCEROL | 15 mg/m ³ total dust 5 mg/m ³ respirable fraction | - | 10 mg/m ³ | - |

Engineering measures Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment
Hand protection Protective gloves
Eye protection Safety glasses with side-shields
Skin and body protection Lightweight protective clothing
Hygiene measures Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls Prevent product from entering drains

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form Liquid

Important Health Safety and Environmental Information

Boiling point/range °C 289.7 °F 554
Melting point/range °C 17.8 °F 64.04
Flash point °C 92.78 °F 199
Autoignition temperature °C No data available °F No data available
Oxidizing properties No information available
Water solubility No data available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions
Materials to avoid No information available
Hazardous decomposition products No information available
Polymerization Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| Chemical Name | LD50 (oral, rat/mouse) | LD50 (dermal, rat/rabbit) | LC50 (inhalation, rat/mouse) |
|---------------|------------------------|---------------------------|------------------------------|
| GLYCEROL | 12600 mg/kg (Rat) | 10 g/kg (Rabbit) | 570 mg/m ³ (Rat) |

Principle Routes of Exposure/ Potential Health Effects

| | |
|------------|--|
| Eyes | May cause eye irritation with susceptible persons. |
| Skin | May cause skin irritation in susceptible persons. |
| Inhalation | No information available |
| Ingestion | No information available |

Specific Effects

| | |
|-----------------------|--------------------------|
| Carcinogenic effects | No information available |
| Mutagenic effects | No information available |
| Reproductive toxicity | No information available |
| Sensitization | No information available |

Target Organ Effects

Eyes. Skin.

12. ECOLOGICAL INFORMATION

| | |
|---------------------|--------------------------|
| Ecotoxicity effects | No information available |
| Mobility | No information available |
| Biodegradation | No information available |
| Bioaccumulation | No information available |

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

IATA

| | |
|----------------------|---|
| Proper shipping name | Not classified as dangerous in the meaning of transport regulations |
| Hazard Class | No information available |
| Subsidiary Class | No information available |
| Packing group | No information available |
| UN-No | No information available |

15. REGULATORY INFORMATION

International Inventories

| Chemical Name | TSCA | PICCS | ENCS | DSL | NDSL | AICS |
|---------------|--------|--------|--------|--------|------|--------|
| GLYCEROL | Listed | Listed | Listed | Listed | - | Listed |

U.S. Federal Regulations

SARA 313

Not regulated

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

This product contains the following HAPs:

U.S. State Regulations

| Chemical Name | Massachusetts - RTK | New Jersey - RTK | Pennsylvania - RTK | Illinois - RTK | Rhode Island - RTK |
|---------------|---------------------|------------------|--------------------|----------------|--------------------|
| GLYCEROL | Listed | - | Listed | - | Listed |

California Proposition 65

This product contains the following Proposition 65 chemicals:

WHMIS Hazard class:

D2B Toxic materials

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

16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic 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 Quanta BioSciences 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 MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

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1. PRODUCT AND COMPANY IDENTIFICATION

Product code 84103, 84104
Product name 1-Step Fast Master Mix (4X)

Manufacturer
QUANTA BIOSCIENCES INC.
202 PERRY PKWY., SUITE 1
GAITHERSBURG, MD 20877
800-364-2149

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Components

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

3. HAZARDS IDENTIFICATION

Emergency Overview

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

Form
Liquid

Potential Health Hazards

| | |
|-------------------|--------------------------|
| Eyes | No information available |
| Skin | No information available |
| Inhalation | No information available |
| Ingestion | No information available |

Specific Effects

| | |
|------------------------------|--------------------------|
| Carcinogenic effects | No information available |
| Mutagenic effects | No information available |
| Reproductive toxicity | No information available |
| Sensitization | No information available |

Target Organ Effects

No information available

4. FIRST AID MEASURES

| | |
|---------------------------|---|
| Skin contact | Wash off immediately with plenty of soap and water. If irritation develops, get medical attention. |
| Eye contact | Rinse thoroughly with plenty of water, also under the eyelids. If irritation persists, get medical attention. |
| Ingestion | Never give anything by mouth to an unconscious person |
| Inhalation | Move to fresh air |
| Notes to physician | Treat symptomatically |

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| Suitable extinguishing media | Dry chemical |
| Special protective equipment for firefighters | Wear self-contained breathing apparatus and protective suit |

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

| | |
|-----------------|-------------------------------------|
| Handling | No special handling advice required |
| Storage | Keep in properly labeled containers |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

| | |
|------------------------|---|
| Exposure limits | |
| Engineering measures | Ensure adequate ventilation, especially in confined areas |

| | |
|--------------------------------------|--|
| Personal protective equipment | |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment |
| Hand protection | Protective gloves |
| Eye protection | Safety glasses with side-shields |
| Skin and body protection | Lightweight protective clothing |
| Hygiene measures | Handle in accordance with good industrial hygiene and safety practice |
| Environmental exposure controls | Prevent product from entering drains |

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

| | |
|-------------|--------|
| Form | Liquid |
|-------------|--------|

Important Health Safety and Environmental Information

| | | | | |
|---------------------------------|--------------------------|-------------------|----|-------------------|
| 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 | No data available | | | |

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Stability | Stable |
| Materials to avoid | No information available |
| Hazardous decomposition products | No information available |
| Polymerization | Hazardous polymerization does not occur |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Principle Routes of Exposure/ Potential Health Effects

| | |
|-------------------|--------------------------|
| Eyes | No information available |
| Skin | No information available |
| Inhalation | No information available |
| Ingestion | No information available |

Specific Effects

| | |
|------------------------------|--------------------------|
| Carcinogenic effects | No information available |
| Mutagenic effects | No information available |
| Reproductive toxicity | No information available |
| Sensitization | No information available |

Target Organ Effects No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects No information available
Mobility No information available
Biodegradation Inherently biodegradable
Bioaccumulation No information available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

IATA

Proper shipping name Not classified as dangerous in the meaning of transport regulations
Hazard Class No information available
Subsidiary Class No information available
Packing group No information available
UN-No No information available

15. REGULATORY INFORMATION

International Inventories

U.S. Federal Regulations

SARA 313

Not regulated

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

This product contains the following HAPs:

U.S. State Regulations

None listed

WHMIS Hazard class

Non-controlled

16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic 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 Quanta BioSciences 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 MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

1. PRODUCT AND COMPANY IDENTIFICATION

Product code 84007
Product name Nuclease-Free Water

Manufacturer
QUANTA BIOSCIENCES INC.
202 PERRY PKWY., SUITE 1
GAITHERSBURG, MD 20877
800-364-2149

2. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous/Non-hazardous Components**

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

3. HAZARDS IDENTIFICATION**Emergency Overview**

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

Form
Liquid

Potential Health Hazards

| | |
|-------------------|----------------|
| Eyes | Not applicable |
| Skin | Not applicable |
| Inhalation | Not applicable |
| Ingestion | Not applicable |

Specific Effects

| | |
|------------------------------|----------------|
| Carcinogenic effects | Not applicable |
| Mutagenic effects | Not applicable |
| Reproductive toxicity | Not applicable |
| Sensitization | Not applicable |

Target Organ Effects Not applicable

4. FIRST AID MEASURES

| | |
|---------------------------|-----------------------|
| Skin contact | Not hazardous. |
| Eye contact | Not hazardous. |
| Ingestion | Not hazardous |
| Inhalation | Not hazardous |
| Notes to physician | Treat symptomatically |

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media The product is not flammable
Special protective equipment for firefighters The product is not flammable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Not applicable.
Methods for cleaning up Not applicable.

7. HANDLING AND STORAGE

Handling No special handling advice required
Storage Keep in properly labeled containers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

Exposure limits
Engineering measures No special precautions required

Personal protective equipment
Respiratory protection No special protective equipment required
Hand protection Not hazardous
Eye protection Not hazardous
Skin and body protection Not hazardous
Hygiene measures Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls No special environmental precautions required

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form Liquid

Important Health Safety and Environmental Information

| | | |
|---------------------------------|--------------------------|----------------------|
| Boiling point/range | °C 100 | °F 212 |
| Melting point/range | °C 0 | °F 32 |
| 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
Materials to avoid None
Hazardous decomposition products None under normal use
Polymerization Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Principle Routes of Exposure/ Potential Health Effects

Eyes Not applicable

Skin Not applicable

Inhalation Not applicable

Ingestion Not applicable

Specific Effects

Carcinogenic effects Not applicable

Mutagenic effects Not applicable

Reproductive toxicity Not applicable

Sensitization Not applicable

Target Organ Effects

Not applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

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

Mobility

completely soluble

Biodegradation

Inherently biodegradable

Bioaccumulation

Does not bioaccumulate

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

IATA

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

Hazard Class No information available

Subsidiary Class No information available

Packing group No information available

UN-No No information available

15. REGULATORY INFORMATION

International Inventories

U.S. Federal Regulations

SARA 313

Not regulated

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U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

WHMIS Hazard class

Non-controlled

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

| |
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| 16. OTHER INFORMATION |
|------------------------------|

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