## KIT COMPONENTS

<table>
<thead>
<tr>
<th>Product code</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>95057-050</td>
<td>qScript™ One-Step RT-PCR Kit</td>
</tr>
<tr>
<td>95057-200</td>
<td></td>
</tr>
</tbody>
</table>

Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>84022</td>
<td>qScript One-Step Reverse Transcriptase</td>
</tr>
<tr>
<td>84023</td>
<td>One-Step Master Mix (2X)</td>
</tr>
<tr>
<td>84007</td>
<td>Nuclease-Free Water</td>
</tr>
</tbody>
</table>
1. PRODUCT AND COMPANY IDENTIFICATION

Product code 84022, 84023
Product name qScript™ One-Step Reverse Transcriptase

Manufacturer
QUANTA BIOSCIENCES INC.
202 PERRY PKWY., SUITE 1
GAITHERSBURG, MD 20877
301-956-1670

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCEROL</td>
<td>56-81-5</td>
<td>40-60%</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL (TWA)</th>
<th>OSHA PEL (Ceiling)</th>
<th>ACGIH OEL (TWA)</th>
<th>ACGIH OEL (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCEROL</td>
<td>15 mg/m³ total dust</td>
<td>-</td>
<td>10 mg/m³</td>
<td>-</td>
</tr>
</tbody>
</table>

5 mg/m³ respirable fraction

**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**

<table>
<thead>
<tr>
<th>Property</th>
<th>°C</th>
<th>°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point/range</td>
<td>289.7</td>
<td>554</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>17.8</td>
<td>64.04</td>
</tr>
<tr>
<td>Flash point</td>
<td>92.78</td>
<td>199</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 (oral, rat/mouse)</th>
<th>LD50 (dermal, rat/rabbit)</th>
<th>LC50 (inhalation, rat/mouse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCEROL</td>
<td>12600 mg/kg (Rat)</td>
<td>10 g/kg (Rabbit)</td>
<td>570 mg/m³ (Rat)</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>PICCS</th>
<th>ENCS</th>
<th>DSL</th>
<th>NDSL</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCEROL</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>-</td>
<td>Listed</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts - RTK</th>
<th>New Jersey - RTK</th>
<th>Pennsylvania - RTK</th>
<th>Illinois - RTK</th>
<th>Rhode Island - RTK</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCEROL</td>
<td>Listed</td>
<td>-</td>
<td>Listed</td>
<td>-</td>
<td>Listed</td>
</tr>
</tbody>
</table>

### 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.

qScript is a trademark of Quanta BioSciences, Inc.
1. PRODUCT AND COMPANY IDENTIFICATION

Product code 84023  
Product name One-Step Master Mix  
Manufacturer  
QUANTA BIOSCIENCES INC.  
202 PERRY PKWY., SUITE 1  
GAITHERSBURG, MD 20877  
301-956-1670

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCEROL</td>
<td>56-81-5</td>
<td>&lt; 20%</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Emergency Overview  
Irritating to eyes. Irritating to skin.

Form  
Liquid

Principal Routes of Exposure/  
Potential Health Effects

<table>
<thead>
<tr>
<th>Eyes</th>
<th>May cause eye irritation with susceptible persons.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>May cause skin irritation in susceptible persons.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No information available</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No information available</td>
</tr>
</tbody>
</table>

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.

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL (TWA)</th>
<th>OSHA PEL (Ceiling)</th>
<th>ACGIH OEL (TWA)</th>
<th>ACGIH OEL (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCEROL</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Physical Property</th>
<th>GLYCEROL</th>
<th>OSHA PEL (TWA)</th>
<th>OSHA PEL (Ceiling)</th>
<th>ACGIH OEL (TWA)</th>
<th>ACGIH OEL (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point/range</td>
<td>°C</td>
<td>No data available</td>
<td>°F</td>
<td>No data available</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>°C</td>
<td>No data available</td>
<td>°F</td>
<td>No data available</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>°C</td>
<td>No data available</td>
<td>°F</td>
<td>No data available</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>°C</td>
<td>No data available</td>
<td>°F</td>
<td>No data available</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 (oral, rat/mouse)</th>
<th>LD50 (dermal, rat/rabbit)</th>
<th>LC50 (inhalation, rat/mouse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCEROL</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Principle Routes of Exposure/
Potential Health Effects

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>May cause eye irritation with susceptible persons.</td>
</tr>
<tr>
<td>Skin</td>
<td>May cause skin irritation in susceptible persons.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No information available</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Specific Effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenic effects</td>
<td>No information available</td>
</tr>
<tr>
<td>Mutagenic effects</td>
<td>No information available</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No information available</td>
</tr>
<tr>
<td>Sensitization</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Target Organ Effects

Eyes. Skin.

12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Ecotoxicity effects</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecotoxicity effects</td>
<td>No information available</td>
</tr>
<tr>
<td>Mobility</td>
<td>No information available</td>
</tr>
<tr>
<td>Biodegradation</td>
<td>No information available</td>
</tr>
<tr>
<td>Bioaccumulation</td>
<td>No information available</td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>IATA</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Not classified as dangerous in the meaning of transport regulations</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>No information available</td>
</tr>
<tr>
<td>Subsidiary Class</td>
<td>No information available</td>
</tr>
<tr>
<td>Packing group</td>
<td>No information available</td>
</tr>
<tr>
<td>UN-No</td>
<td>No information available</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>PICCS</th>
<th>ENCS</th>
<th>DSL</th>
<th>NDSL</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCEROL</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts - RTK</th>
<th>New Jersey - RTK</th>
<th>Pennsylvania - RTK</th>
<th>Illinois - RTK</th>
<th>Rhode Island - RTK</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCEROL</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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.
1. PRODUCT AND COMPANY IDENTIFICATION

Product code 84007
Product name Nuclease-Free Water

Manufacturer
QUANTA BIOSCIENCES INC.
202 PERRY PKWY., SUITE 1
GAIHERSBURG, MD 20877
301-956-1670

1. 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.

2. 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

3. FIRST AID MEASURES

Skin contact Not hazardous.
Eye contact Not hazardous.
Ingestion Not hazardous.
Inhalation Not hazardous.
Notes to physician Treat symptomatically
4. FIRE-FIGHTING MEASURES

Suitable extinguishing media
The product is not flammable

Special protective equipment for firefighters
The product is not flammable

5. ACCIDENTAL RELEASE MEASURES

Personal precautions
Not applicable.

Methods for cleaning up
Not applicable.

6. HANDLING AND STORAGE

Handling
No special handling advice required

Storage
Keep in properly labeled containers

7. 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

8. 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

9. STABILITY AND REACTIVITY

Stability
Stable

Materials to avoid
None

Hazardous decomposition products
None under normal use

Polymerization
Hazardous polymerization does not occur
10. 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

11. ECOLOGICAL INFORMATION

Ecotoxicity effects: Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plant

- Mobility: completely soluble
- Biodegradation: Inherently biodegradable
- Bioaccumulation: Does not bioaccumulate

12. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

13. 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

14. 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

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

15. OTHER INFORMATION

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END OF SAFETY DATA SHEET