## KIT COMPONENTS

<table>
<thead>
<tr>
<th>Product code</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>95059-050</td>
<td>qScript™ One-Step RT-PCR Kit, Low ROX</td>
</tr>
<tr>
<td>95059-200</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></td>
</tr>
<tr>
<td>84038</td>
<td>One-Step Master Mix, Low ROX (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>
<tr>
<td></td>
<td>5 mg/m³ respirable fraction</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>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 84038
Product name One-Step Master Mix, Low ROX

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
- 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.

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
- 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

<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

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>
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<th>DSL</th>
<th>NDSL</th>
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<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:
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.

ROX is a trademark of the Applera Corporation.
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
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

Principal 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 plants

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

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.

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END OF SAFETY DATA SHEET