## KIT COMPONENTS

<table>
<thead>
<tr>
<th>Product code</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>95087-050</td>
<td>qScript One-Step SYBR® Green qRT-PCR Kit</td>
</tr>
<tr>
<td>95087-200</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>84139</td>
<td>One-Step SYBR Green 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
800-364-2149

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>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
<td>No data available</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**: Non-hazardous for air transport
- **RIS/ADR**: Non-hazardous for road transport
- **IMDG**: Non-hazardous for sea transport

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 84139
Product name One-Step SYBR® Green Master Mix (2X)

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

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>Dimethyl Sulfoxide</td>
<td>67-68-5</td>
<td>&lt;10</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Emergency Overview
Irritating to eyes. Irritating to skin. Components of the product may be absorbed into the body through the skin.

Form
Liquid

Potential Health Hazards

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Irritating to eyes.</td>
</tr>
<tr>
<td>Skin</td>
<td>Irritating to skin. Components of the product may be absorbed into the body through the skin</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May cause irritation of respiratory tract.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed.</td>
</tr>
</tbody>
</table>

Specific Effects

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></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

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes. Skin.</td>
</tr>
</tbody>
</table>

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
Avoid contact with skin and eyes.

Storage
Keep in properly labeled containers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

<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>Dimethyl Sulfoxide</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 189 °F No data available
- Melting point/range: °C 18.4 °F No data available
- Flash point: °C 94 °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 information available

Hazardous decomposition products: No information available

Polymerization: Hazardous polymerization does not occur
11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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</thead>
<tbody>
<tr>
<td>Dimethyl Sulfoxide</td>
<td>14500 mg/kg (Rat)</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Principle Routes of Exposure/ Potential Health Effects
- **Eyes**: Irritating to eyes.
- **Skin**: Irritating to skin. Components of the product may be absorbed into the body through the skin.
- **Inhalation**: May cause irritation of respiratory tract.
- **Ingestion**: May be harmful if swallowed.

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**: Inherently biodegradable
- **Bioaccumulation**: Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

- **IATA**: Non-hazardous for air transport
- **RIS/ADR**: Non-hazardous for road transport
- **IMDG**: Non-hazardous for sea transport

15. REGULATORY INFORMATION

International Inventories

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<th>DSL</th>
<th>NDSL</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl sulfoxide</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>-</td>
<td>Listed</td>
</tr>
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SYBR is a registered trademark of Molecular Probes, Inc.
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: Non-hazardous for air transport
- RIS/ADR: Non-hazardous for road transport
- IMDG: Non-hazardous for sea transport

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

California Proposition 65
- This product contains the following Proposition 65 chemicals:
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END OF SAFETY DATA SHEET