

**KIT COMPONENTS**

| Product code           | Product Name                            |
|------------------------|---|
| 95080-100<br>95080-500 | qScript™ One-Step Fast qRT-PCR Kit, ROX |

Components

|                |                                  |
|----------------|----------------------------------|
| 84099<br>84100 | qScript™ 1-Step Fast RT          |
| 84105<br>84106 | 1-Step Fast Master Mix, ROX (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 <sup>3</sup> total dust<br>5 mg/m <sup>3</sup> respirable fraction | -                  | 10 mg/m <sup>3</sup> | -                |

**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 <sup>3</sup> (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

Non-hazardous for air transport

### RIS/ADR

Non-hazardous for road transport

### IMDG

Non-hazardous for sea transport

## 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.

qScript is a trademark of Quanta BioSciences, Inc.

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product code** 84105, 84106  
**Product name** 1-Step Fast Master Mix, ROX (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**

|                   |                          |
|-------------------|--------------------------|
| <b>Eyes</b>       | No information available |
| <b>Skin</b>       | No information available |
| <b>Inhalation</b> | No information available |
| <b>Ingestion</b>  | No information available |

**Specific Effects**

|                              |                          |
|------------------------------|--------------------------|
| <b>Carcinogenic effects</b>  | No information available |
| <b>Mutagenic effects</b>     | No information available |
| <b>Reproductive toxicity</b> | No information available |
| <b>Sensitization</b>         | No information available |

**Target Organ Effects**

No information available

**4. FIRST AID MEASURES**

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

**5. FIRE-FIGHTING MEASURES**

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

## 6. ACCIDENTAL RELEASE MEASURES

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

## 7. HANDLING AND STORAGE

|                 |                                     |
|-----------------|-------------------------------------|
| <b>Handling</b> | No special handling advice required |
| <b>Storage</b>  | Keep in properly labeled containers |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

|                        |   |
|------------------------|---|
| <b>Exposure limits</b> |   |
| Engineering measures   | Ensure adequate ventilation, especially in confined areas |

|  |  |
|--|--|
| <b>Personal protective equipment</b>   |  |
| 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    |
| <b>Environmental exposure controls</b> | Prevent product from entering drains                                     |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**General Information**

|             |        |
|-------------|--------|
| <b>Form</b> | Liquid |
|-------------|--------|

**Important Health Safety and Environmental Information**

|                                 |                          |                      |
|---------------------------------|--------------------------|----------------------|
| <b>Boiling point/range</b>      | °C No data available     | °F No data available |
| <b>Melting point/range</b>      | °C No data available     | °F No data available |
| <b>Flash point</b>              | °C No data available     | °F No data available |
| <b>Autoignition temperature</b> | °C No data available     | °F No data available |
| <b>Oxidizing properties</b>     | No information available |                      |
| <b>Water solubility</b>         | No data available        |                      |

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**

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

|                   |                          |
|-------------------|--------------------------|
| <b>Eyes</b>       | No information available |
| <b>Skin</b>       | No information available |
| <b>Inhalation</b> | No information available |
| <b>Ingestion</b>  | No information available |

**Specific Effects**

|                              |                          |
|------------------------------|--------------------------|
| <b>Carcinogenic effects</b>  | No information available |
| <b>Mutagenic effects</b>     | No information available |
| <b>Reproductive toxicity</b> | No information available |
| <b>Sensitization</b>         | 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

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## 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**

|                   |                |
|-------------------|----------------|
| <b>Eyes</b>       | Not applicable |
| <b>Skin</b>       | Not applicable |
| <b>Inhalation</b> | Not applicable |
| <b>Ingestion</b>  | Not applicable |

**Specific Effects**

|                              |                |
|------------------------------|----------------|
| <b>Carcinogenic effects</b>  | Not applicable |
| <b>Mutagenic effects</b>     | Not applicable |
| <b>Reproductive toxicity</b> | Not applicable |
| <b>Sensitization</b>         | Not applicable |

**Target Organ Effects** Not applicable

## 4. FIRST AID MEASURES

|                           |                       |
|---------------------------|-----------------------|
| <b>Skin contact</b>       | Not hazardous.        |
| <b>Eye contact</b>        | Not hazardous.        |
| <b>Ingestion</b>          | Not hazardous         |
| <b>Inhalation</b>         | Not hazardous         |
| <b>Notes to physician</b> | 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**

|                                 |                          |                      |
|---------------------------------|--------------------------|----------------------|
| <b>Boiling point/range</b>      | °C 100                   | °F 212               |
| <b>Melting point/range</b>      | °C 0                     | °F 32                |
| <b>Flash point</b>              | °C No data available     | °F No data available |
| <b>Autoignition temperature</b> | °C No data available     | °F No data available |
| <b>Oxidizing properties</b>     | No information available |                      |
| <b>Water solubility</b>         | 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

#### 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

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

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