

# SAFETY DATA SHEET

Mito-rOCR starter kit

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

<b>Product name</b>	: Mito-rOCR starter kit	
<b>CAS number</b>	: Agilent GOx	9001-37-0
	: rOCR Reagent	Not available.
	: Agilent Rot/AA	Not applicable.
<b>Part no. (chemical kit)</b>	: MO-300-4, MO-400-4	
<b>Part no.</b>	: Agilent GOx	103714-100
	: rOCR Reagent	103704-100
	: Agilent Rot/AA	103712-100

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

<b>Identified uses</b>	: For research use only.	
	: Agilent GOx	4 x 1.1 mg
	: rOCR Reagent	4 x 210 ug
	: Agilent Rot/AA	4 x 1.145 mg
<b>Uses advised against</b>	: Not for use in diagnostic procedures (RUO).	

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.  
5500 Lakeside Cheadle Royal Business Park,  
Cheadle, Cheshire, SK8 3GR  
United Kingdom  
Tel: +44 (0) 345 712 5292

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

**Note \*** : Mito-rOCR Assay Kit MO-300-4  
Mito-rOCR Assay Starter Kit MO-400-4

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	: Agilent GOx	Mono-constituent substance
	: rOCR Reagent	UVCB
	: Agilent Rot/AA	Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Agilent GOx  
H334                      RESPIRATORY SENSITISATION                      Category 1

Agilent Rot/AA  
H400                      SHORT-TERM (ACUTE) AQUATIC HAZARD                      Category 1  
H410                      LONG-TERM (CHRONIC) AQUATIC HAZARD                      Category 1

Agilent GOx                      The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

rOCR Reagent                      The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Agilent Rot/AA                      The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.


## SECTION 2: Hazards identification


**Ingredients of unknown toxicity** : Agilent Rot/AA Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** : Agilent GOx 

Agilent Rot/AA 

**Signal word** : Agilent GOx  
rOCR Reagent  
Agilent Rot/AA  
Danger  
No signal word.  
Warning

**Hazard statements** : Agilent GOx  
rOCR Reagent  
Agilent Rot/AA  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
No known significant effects or critical hazards.  
H410 - Very toxic to aquatic life with long lasting effects.

### Precautionary statements

**Prevention** : Agilent GOx  
rOCR Reagent  
Agilent Rot/AA  
P284 - Wear respiratory protection.  
P261 - Avoid breathing dust.  
Not applicable.  
P273 - Avoid release to the environment.

**Response** : Agilent GOx  
rOCR Reagent  
Agilent Rot/AA  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.  
Not applicable.  
P391 - Collect spillage.

**Storage** : Agilent GOx  
rOCR Reagent  
Agilent Rot/AA  
Not applicable.  
Not applicable.  
Not applicable.

**Disposal** : Agilent GOx  
rOCR Reagent  
Agilent Rot/AA  
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  
Not applicable.  
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : Agilent GOx  
rOCR Reagent  
Agilent Rot/AA  
Not applicable.  
Not applicable.  
Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Agilent GOx  
rOCR Reagent  
Agilent Rot/AA  
Not applicable.  
Not applicable.  
Not applicable.

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Agilent GOx  
rOCR Reagent  
Agilent Rot/AA  
Not applicable.  
Not applicable.  
Not applicable.

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**SECTION 2: Hazards identification**

**Tactile warning of danger** : Agilent GOx Not applicable.  
 rOCR Reagent Not applicable.  
 Agilent Rot/AA Not applicable.

**2.3 Other hazards**

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII**

	PBT	P	B	T	vPvB	vP	vB
<b>Agilent GOx</b> No		N/A	N/A	No	N/A	N/A	N/A
<b>rOCR Reagent</b> N/A		N/A	N/A	N/A	N/A	N/A	N/A

Agilent Rot/AA This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : Agilent GOx None known.  
 rOCR Reagent May form combustible dust concentrations in air.  
 Agilent Rot/AA None known.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances** : Agilent GOx Mono-constituent substance  
 rOCR Reagent UVCB  
 Agilent Rot/AA Mixture

Product/ingredient name	Identifiers	%	Classification	Type
<b>Agilent GOx</b> Oxidase, glucose	EC: 232-601-0 CAS: 9001-37-0	100	Resp. Sens. 1, H334	[1]
<b>rOCR Reagent</b> Conjugated dye (Proprietary)	-	100	Not classified.	[1]
<b>Agilent Rot/AA</b> Antimycin A	CAS: 1397-94-0	≤0.3	Acute Tox. 2, H300 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=10000)	[1]
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	EC: 201-501-9 CAS: 83-79-4 Index: 650-005-00-2	≤0.3	Acute Tox. 3, H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) <b>See Section 16 for the full text of the H statements declared above.</b>	[1] [2]

\* Non-hazardous ingredients: Conjugated dye (Proprietary)

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

**Type**  
 Agilent GOx [1] Constituent  
 rOCR Reagent [1] Constituent  
 Agilent Rot/AA [1] Substance classified with a health or environmental hazard  
 [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

<b>Eye contact</b>	: Agilent GOx	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
	rOCR Reagent	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Agilent Rot/AA	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	: Agilent GOx	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In the event of any complaints or symptoms, avoid further exposure.
	rOCR Reagent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Agilent Rot/AA	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Skin contact</b>	: Agilent GOx	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	rOCR Reagent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Agilent Rot/AA	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: Agilent GOx	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	rOCR Reagent	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Agilent Rot/AA	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

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**SECTION 4: First aid measures**

<b>Protection of first-aiders</b>	: Agilent GOx  rOCR Reagent  Agilent Rot/AA	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.
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**4.2 Most important symptoms and effects, both acute and delayed**

Over-exposure signs/symptoms

<b>Eye contact</b>	: Agilent GOx rOCR Reagent  Agilent Rot/AA	No specific data. Adverse symptoms may include the following: irritation redness
<b>Inhalation</b>	: Agilent GOx  rOCR Reagent  Agilent Rot/AA	No specific data. Adverse symptoms may include the following: wheezing and breathing difficulties asthma Adverse symptoms may include the following: respiratory tract irritation coughing
<b>Skin contact</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	No specific data. No specific data. No specific data.
<b>Ingestion</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	No specific data. No specific data. No specific data.

**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes to physician</b>	: Agilent GOx  rOCR Reagent  Agilent Rot/AA	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	No specific treatment. No specific treatment. No specific treatment.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Use an extinguishing agent suitable for the surrounding fire. Use dry chemical powder. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: Agilent GOx rOCR Reagent  Agilent Rot/AA	None known. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. None known.

**5.2 Special hazards arising from the substance or mixture**

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**SECTION 5: Firefighting measures**

<b>Hazards from the substance or mixture</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	No specific fire or explosion hazard. May form explosible dust-air mixture if dispersed. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Hazardous combustion products</b>	: Agilent GOx  rOCR Reagent  Agilent Rot/AA	Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides metal oxide/oxides Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
<b>5.3 Advice for firefighters</b>		
<b>Special protective actions for fire-fighters</b>	: Agilent GOx  rOCR Reagent  Agilent Rot/AA	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	: Agilent GOx  rOCR Reagent  Agilent Rot/AA	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

<b>For non-emergency personnel</b>	: Agilent GOx	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	rOCR Reagent	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
	Agilent Rot/AA	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate

## SECTION 6: Accidental release measures

<b>For emergency responders</b>	: Agilent GOx	personal protective equipment. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	rOCR Reagent	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Agilent Rot/AA	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
<b>6.2 Environmental precautions</b>	: Agilent GOx	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	rOCR Reagent	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Agilent Rot/AA	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
<b>6.3 Methods and material for containment and cleaning up</b>		
<b>Methods for cleaning up</b>	: Agilent GOx	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
	rOCR Reagent	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
	Agilent Rot/AA	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
<b>6.4 Reference to other sections</b>	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: Agilent GOx	Put on appropriate personal protective equipment (see Section 8). Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	rOCR Reagent	Put on appropriate personal protective equipment (see

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**SECTION 7: Handling and storage**

Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

Agilent Rot/AA Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene**

: Agilent GOx Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

rOCR Reagent Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Agilent Rot/AA Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage** : Agilent GOx Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

rOCR Reagent Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Shelf life: 24 months. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.



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## SECTION 7: Handling and storage

Agilent Rot/AA

Storage temperature: room temperature. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Seveso Directive - Reporting thresholds

#### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Agilent Rot/AA E1	100 tonne	200 tonne

### 7.3 Specific end use(s)

<b>Recommendations</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Agilent Rot/AA (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. STEL: 10 mg/m <sup>3</sup> 15 minutes.

#### Biological exposure indices

No exposure indices known.

**Recommended monitoring procedures** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual protection measures

## SECTION 8: Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	:	Agilent GOx rOCR Reagent Agilent Rot/AA	Solid. Solid. [lyophilised / Powder.] Solid.
<b>Colour</b>	:	Agilent GOx rOCR Reagent Agilent Rot/AA	Yellow. Red. White.
<b>Odour</b>	:	Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Odourless.
<b>Odour threshold</b>	:	Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.
<b>Melting point/freezing point</b>	:	Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.
<b>Initial boiling point and boiling range</b>	:	Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.
<b>Flammability</b>	:	Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.

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## SECTION 9: Physical and chemical properties

<b>Upper/lower flammability or explosive limits</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not applicable. Not applicable. Not applicable.								
<b>Flash point</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not applicable. Not applicable. Not applicable.								
<b>Auto-ignition temperature</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not applicable. Not applicable. Not applicable.								
<b>Decomposition temperature</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.								
<b>pH</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.								
<b>Viscosity</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not applicable. Not applicable. Not applicable.								
<b>Solubility(ies)</b>	: <table border="1" data-bbox="466 779 1513 1016"> <thead> <tr> <th>Media</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>Agilent GOx water</td> <td>Soluble</td> </tr> <tr> <td>rOCR Reagent water</td> <td>Soluble</td> </tr> <tr> <td>Agilent Rot/AA water</td> <td>Soluble</td> </tr> </tbody> </table>	Media	Result	Agilent GOx water	Soluble	rOCR Reagent water	Soluble	Agilent Rot/AA water	Soluble	
Media	Result									
Agilent GOx water	Soluble									
rOCR Reagent water	Soluble									
Agilent Rot/AA water	Soluble									
<b>Partition coefficient: n-octanol/water</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not applicable.								
<b>Vapour pressure</b>	: Not available.									
<b>Evaporation rate</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.								
<b>Relative density</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.								
<b>Vapour density</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not applicable. Not applicable. Not applicable.								
<b>Explosive properties</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.								
<b>Oxidising properties</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.								
<b>Particle characteristics</b>										
<b>Median particle size</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.								

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	The product is stable. Shelf life: 24 months. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: Agilent GOx rOCR Reagent  Agilent Rot/AA	No specific data. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. No specific data.
<b>10.5 Incompatible materials</b>	: Agilent GOx rOCR Reagent  Agilent Rot/AA	May react or be incompatible with oxidising materials. Reactive or incompatible with the following materials: oxidising materials May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: Agilent GOx rOCR Reagent  Agilent Rot/AA	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Agilent GOx Oxidase, glucose	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
Agilent Rot/AA Antimycin A (2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro- 2-isopropenyl- 8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen- 6-one	LD50 Oral LD50 Oral	Rat Rat	28 mg/kg 25 mg/kg	- -

#### Acute toxicity estimates

Mito-rOCR starter kit

**SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Agilent Rot/AA Agilent Rot/AA Antimycin A (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	9000.9 28 100	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Agilent Rot/AA (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	Eyes - Mild irritant	Rabbit	-	1 %	-

**Sensitiser**

Conclusion/Summary : Not available.

**Mutagenicity**

Conclusion/Summary : Not available.

**Carcinogenicity**

Conclusion/Summary : Not available.

**Reproductive toxicity**

Conclusion/Summary : Not available.

**Teratogenicity**

Conclusion/Summary : Not available.

**Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
Agilent Rot/AA (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	Category 3	-	Respiratory tract irritation

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure**

Agilent GOx  
rOCR Reagent  
Agilent Rot/AA

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.  
Not available.  
Not available.

**Potential acute health effects**

**Inhalation**

Agilent GOx  
rOCR Reagent  
Agilent Rot/AA

May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.  
No known significant effects or critical hazards.

**Ingestion**

Agilent GOx  
rOCR Reagent  
Agilent Rot/AA

No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

## SECTION 11: Toxicological information

<b>Skin contact</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Eye contact</b>	: Agilent GOx rOCR Reagent  Agilent Rot/AA	No known significant effects or critical hazards. Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation</b>	: Agilent GOx  rOCR Reagent  Agilent Rot/AA	Adverse symptoms may include the following: wheezing and breathing difficulties asthma Adverse symptoms may include the following: respiratory tract irritation coughing No specific data.
<b>Ingestion</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	No specific data. No specific data. No specific data.
<b>Skin contact</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	No specific data. No specific data. No specific data.
<b>Eye contact</b>	: Agilent GOx rOCR Reagent  Agilent Rot/AA	No specific data. Adverse symptoms may include the following: irritation redness No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

#### Long term exposure

<b>Potential immediate effects</b>	: Not available.
<b>Potential delayed effects</b>	: Not available.

### Potential chronic health effects

<b>Conclusion/Summary</b>	: Not available.	
<b>General</b>	: Agilent GOx  rOCR Reagent  Agilent Rot/AA	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: Agilent GOx rOCR Reagent Agilent Rot/AA	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>Agilent GOx</b> Oxidase, glucose	Acute EC50 88.3 mg/l Fresh water	Algae - Algae - <i>Scenedesmus sp.</i>	72 hours
	Acute EC50 26.2 mg/l Fresh water	Daphnia - Daphnia - <i>Daphnia magna</i>	48 hours
<b>Agilent Rot/AA</b> Antimycin A  (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	Acute LC50 0.000019 mg/l Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	96 hours
	Acute EC50 190 µg/l Fresh water	Crustaceans - Water flea - <i>Simocephalus serrulatus</i> - Larvae	48 hours
	Acute EC50 3.7 µg/l Fresh water	Daphnia - Water flea - <i>Daphnia magna</i>	48 hours
	Acute LC50 1.9 ppb Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	96 hours
	Chronic NOEC 0.3 ppb Fresh water	Daphnia - Water flea - <i>Daphnia magna</i>	21 days
	Chronic NOEC 1.01 ppb	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i>	32 days

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<b>Agilent GOx</b> Oxidase, glucose	OECD 301E Ready Biodegradability - Modified OECD Screening Test	91 % - Readily - 28 days	-	-

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>Agilent GOx</b> Oxidase, glucose	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Agilent Rot/AA</b> (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	4.1	25.7	Low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

Mito-rOCR starter kit

## SECTION 12: Ecological information

### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Agilent GOx Oxidase, glucose	No	N/A	N/A	No	N/A	N/A	N/A
rOCR Reagent Conjugated dye (Proprietary)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

12.6 Other adverse effects : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	UN3077	UN3077	UN3077
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Antimycin A)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Antimycin A)	Environmentally hazardous substance, solid, n.o.s. (Antimycin A)
14.3 Transport hazard class(es)	9 	9 	9 
14.4 Packing group	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.

#### Additional information

Remarks: De minimis quantities



**Mito-rOCR starter kit**

## SECTION 14: Transport information

- ADR/RID** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.  
**Hazard identification number** 90  
**Limited quantity** 5 kg  
**Special provisions** 274, 335, 601, 375  
**Tunnel code** (-)
- IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.  
**Emergency schedules** F-A, S-F  
**Special provisions** 274, 335, 966, 967, 969
- IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.  
**Quantity limitation** Passenger and Cargo Aircraft: 400 kg. Packaging instructions: 956. Cargo Aircraft Only: 400 kg. Packaging instructions: 956. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y956.  
**Special provisions** A97, A158, A179, A197, A215
- 14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- 14.7 Transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### UK (GB)/REACH

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

###### Ozone depleting substances

Not listed.

###### Prior Informed Consent (PIC)

Not listed.

###### Persistent Organic Pollutants

Not listed.

### **Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

No listed substance

<b>Label</b>	:	Agilent GOx	Not applicable.
		rOCR Reagent	Not applicable.
		Agilent Rot/AA	Not applicable.

#### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

Mito-rOCR starter kit

## SECTION 15: Regulatory information

### Category

Agilent Rot/AA  
E1

### EU regulations

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**United States** : Not determined.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification

Classification	Justification
<p>Agilent GOx Resp. Sens. 1, H334</p>	Expert judgment
<p>Agilent Rot/AA Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>	<p>Calculation method Calculation method</p>

### Full text of abbreviated H statements

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## SECTION 16: Other information

### Agilent GOx

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Agilent Rot/AA

H300 Fatal if swallowed.  
 H301 Toxic if swallowed.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.

### Full text of classifications

#### Agilent GOx

Resp. Sens. 1 RESPIRATORY SENSITISATION - Category 1

#### Agilent Rot/AA

Acute Tox. 2 ACUTE TOXICITY - Category 2  
 Acute Tox. 3 ACUTE TOXICITY - Category 3  
 Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  
 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1  
 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  
 Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2  
 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

**Date of issue/ Date of revision** : 15/04/2024

**Date of previous issue** : 30/06/2023

**Version** : 3

**Note \*** : Mito-rOCR Assay Kit MO-300-4  
 Mito-rOCR Assay Starter Kit MO-400-4

### Notice to reader

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