

SAFETY DATA SHEET

Mito-rOCR starter kit

Section 1. Identification

Product identifier : Mito-rOCR starter kit
Part no. (chemical kit) : MO-300-4, MO-400-4
Part no. : Agilent GOx 103714-100
 rOCR Reagent 103704-100
 Agilent Rot/AA 103712-100

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

Identified uses : 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

Uses advised against : Not for use in diagnostic procedures (RUO).

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
 679 Springvale Road
 Mulgrave
 Victoria 3170, Australia
 1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

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

Section 2. Hazard(s) identification

Classification of the substance or mixture


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

GHS label elements

Hazard pictograms

: Agilent GOx 

Agilent Rot/AA 

Signal word : Agilent GOx DANGER
 rOCR Reagent No signal word.
 Agilent Rot/AA WARNING

Section 2. Hazard(s) identification

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

Section 3. Composition and ingredient information

Substance/mixture	: Agilent GOx rOCR Reagent Agilent Rot/AA	Substance Substance Mixture
--------------------------	---	-----------------------------------

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Agilent GOx Oxidase, glucose	100	9001-37-0
rOCR Reagent Conjugated dye (Proprietary)	100	-
Agilent Rot/AA Antimycin A	≤0.3	1397-94-0

* Non-hazardous ingredients: Conjugated dye (Proprietary)

Section 3. Composition and ingredient information

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: 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.
Inhalation	: 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.
Skin contact	: 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.

Section 4. First aid measures

Ingestion	: 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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

Over-exposure signs/symptoms

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

Section 4. First aid measures

Ingestion	: Agilent GOx rOCR Reagent Agilent Rot/AA	No specific data. No specific data. No specific data.
------------------	---	---

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: 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.
Specific treatments	: Agilent GOx rOCR Reagent Agilent Rot/AA	No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: 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.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: 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.
Unsuitable extinguishing media	: 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.
Specific hazards arising from the chemical	: 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.
Hazardous thermal decomposition products	: Agilent GOx rOCR Reagent	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

Section 5. Firefighting measures

		phosphorus oxides metal oxide/oxides
	Agilent Rot/AA	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: Agilent GOx	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.
	rOCR Reagent	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.
	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.
Special protective equipment for fire-fighters	: Agilent GOx	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	rOCR Reagent	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	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.
Hazchem code	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. 2Z

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 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 personal protective equipment.

Section 6. Accidental release measures

For emergency responders : Agilent GOx

rOCR Reagent

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".
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".
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".

Environmental precautions : Agilent GOx

rOCR Reagent

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).
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).
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.

Methods and material for containment and cleaning up

Methods for cleaning up : Agilent GOx

rOCR Reagent

Agilent Rot/AA

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.
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.
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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : 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.

Section 7. Handling and storage

	rOCR Reagent	Put on appropriate personal protective equipment (see 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.
Conditions for safe storage, including any incompatibilities	: 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.

Section 7. Handling and storage

Agilent Rot/AA

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. 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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

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.

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.

Individual protection measures

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.

Section 8. Exposure controls and personal protection

- 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.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state	: Agilent GOx rOCR Reagent Agilent Rot/AA	Solid. Solid. [lyophilised / Powder.] Solid.
Colour	: Agilent GOx rOCR Reagent Agilent Rot/AA	Yellow. Red. White.
Odour	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Odourless.
Odour threshold	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.
pH	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.
Melting point/freezing point	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.
Boiling point, initial boiling point, and boiling range	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.
Flash point	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not applicable. Not applicable. Not applicable.
Evaporation rate	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.
Flammability	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.
Lower and upper explosion limit/flammability limit	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not applicable. Not applicable. Not applicable.
Vapour pressure	: Not available.	
Relative vapour density	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not applicable. Not applicable. Not applicable.
Relative density	: Agilent GOx rOCR Reagent Agilent Rot/AA	Not available. Not available. Not available.

Section 9. Physical and chemical properties and safety characteristics

Solubility(ies)	Media	Result
	Agilent GOx water	Soluble
	rOCR Reagent water	Soluble
	Agilent Rot/AA water	Soluble
Partition coefficient: n-octanol/water	Agilent GOx	Not available.
	rOCR Reagent	Not available.
	Agilent Rot/AA	Not applicable.
Auto-ignition temperature	Agilent GOx	Not applicable.
	rOCR Reagent	Not applicable.
	Agilent Rot/AA	Not applicable.
Decomposition temperature	Agilent GOx	Not available.
	rOCR Reagent	Not available.
	Agilent Rot/AA	Not available.
Viscosity	Agilent GOx	Not applicable.
	rOCR Reagent	Not applicable.
	Agilent Rot/AA	Not applicable.
Particle characteristics		
Median particle size	Agilent GOx	Not available.
	rOCR Reagent	Not available.
	Agilent Rot/AA	Not available.

Section 10. Stability and reactivity

Reactivity	Agilent GOx	No specific test data related to reactivity available for this product or its ingredients.
	rOCR Reagent	No specific test data related to reactivity available for this product or its ingredients.
	Agilent Rot/AA	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	Agilent GOx	The product is stable.
	rOCR Reagent	Shelf life: 24 months.
	Agilent Rot/AA	The product is stable.
Possibility of hazardous reactions	Agilent GOx	Under normal conditions of storage and use, hazardous reactions will not occur.
	rOCR Reagent	Under normal conditions of storage and use, hazardous reactions will not occur.
	Agilent Rot/AA	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Agilent GOx	No specific data.
	rOCR Reagent	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.
	Agilent Rot/AA	No specific data.
Incompatible materials	Agilent GOx	May react or be incompatible with oxidising materials.
	rOCR Reagent	Reactive or incompatible with the following materials: oxidising materials
	Agilent Rot/AA	May react or be incompatible with oxidising materials.

Section 10. Stability and reactivity

Hazardous decomposition products	: Agilent GOx	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	rOCR Reagent	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Agilent Rot/AA	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

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	LD50 Oral	Rat	28 mg/kg	-

Irritation/Corrosion

Not available.

Sensitisation

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)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	: Agilent GOx	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	rOCR Reagent	Not available.
	Agilent Rot/AA	Not available.

Potential acute health effects

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

Section 11. Toxicological information

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.
Skin contact	: 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.
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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Agilent GOx rOCR Reagent Agilent Rot/AA	No specific data. Adverse symptoms may include the following: irritation redness No specific data.
Inhalation	: 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.
Skin contact	: Agilent GOx rOCR Reagent Agilent Rot/AA	No specific data. No specific data. No specific data.
Ingestion	: Agilent GOx rOCR Reagent Agilent Rot/AA	No specific data. No specific data. No specific data.

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

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

General	: 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.
Carcinogenicity	: 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.
Mutagenicity	: 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.
Reproductive toxicity	: 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

Numerical measures of toxicity

Acute toxicity estimates

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 Antimycin A	28	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Agilent GOx Oxidase, glucose	Acute EC50 88.3 mg/l Fresh water Acute EC50 26.2 mg/l Fresh water	Algae - <i>Scenedesmus sp.</i> Daphnia - <i>Daphnia magna</i>	72 hours 48 hours
Agilent Rot/AA Antimycin A	Acute LC50 0.000019 mg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours

Persistence and degradability

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

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

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

Disposal methods : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its

Section 13. Disposal considerations

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 spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Additional information

Remarks: De minimis quantities

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.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

5

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

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

Australia : Not determined.

New Zealand : Not determined.

United States : Not determined.

Section 16. Any other relevant information

History

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

Date of previous issue : 30/06/2023

Version : 3

Section 16. Any other relevant information

Key to abbreviations	: ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations
-----------------------------	---

Procedure used to derive the classification

Classification	Justification
Agilent GOx RESPIRATORY SENSITISATION - Category 1	Expert judgment
Agilent Rot/AA SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	Calculation method Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

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