SAFETY DATA SHEET





Mito-rOCR starter kit

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

1.1 Product identifier

Product name : Mito-rOCR starter kit

CAS number: Agilent GOx 9001-37-0

rOCR Reagent Not available.
Agilent Rot/AA Not applicable.

Part no. (chemical kit) : MO-300-4, MO-400-4

Part no. : **A**gilent 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

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).

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH

Hewlett-Packard-Str. 8 76337 Waldbronn

Germany 0800 603 1000

e-mail address of person : pdl-msds_author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone

number (with hours of

operation)

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

Mito-rOCR Assay Starter Kit MO-400-4

: CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : 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 Regulation (EC) 1272/2008 as

amended.

rOCR Reagent The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Agilent Rot/AA The product is classified as hazardous according to Regulation (EC) 1272/2008 as

amended.

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 1/20

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 Danger

rOCR Reagent No signal word. Agilent Rot/AA Warning

Hazard statements : Agilent GOx H334 - May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

rOCR Reagent No known significant effects or critical hazards.

Agilent Rot/AA H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention: Agilent GOx P284 - Wear respiratory protection.

P261 - Avoid breathing dust.

rOCR Reagent Not applicable.

Agilent Rot/AA P273 - Avoid release to the environment.

Response : Rigilent GOx 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.

rOCR Reagent Not applicable.

Agilent Rot/AA P391 - Collect spillage.

Storage : Agilent GOx Not applicable.

rOCR Reagent Not applicable. Agilent Rot/AA Not applicable.

Disposal : Agilent GOx P501 - Dispose of contents and container in accordance

with all local, regional, national and international regulations.

rOCR Reagent Not applicable.

Agilent Rot/AA 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. Not applicable.

Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Agilent Rot/AA

Not applicable.

Rigilent GOx

rOCR Reagent

Agilent Rot/AA

Not applicable.

Not applicable.

Not applicable.

Special packaging requirements

Tactile warning of : Agilent GOx

danger rOCR Reagent

rOCR Reagent Not applicable.
Agilent Rot/AA Not applicable.

2.3 Other hazards

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 2/20

SECTION 2: Hazards identification

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

PBT	Р	В	Т	vPvB	vP	vB
Agilent GOx No	N/A	N/A	No	N/A	N/A	N/A
rOCR Reagent 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

: Agilent GOx

None known.

not result in classification

rOCR Reagent May form combustible dust concentrations in air.

None known.

SECTION 3: Composition/information on ingredients

Agilent Rot/AA

3.1 Substances : ▶ Gilent GOx Mono-constituent substance

rÖCR Reagent UVCB Agilent Rot/AA Mixture

	Aglietit Rol/AA		Mixture		
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Agilent GOx					
Oxidase, glucose	EC: 232-601-0 CAS: 9001-37-0	100	Resp. Sens. 1, H334	-	[1]
rOCR Reagent					
Conjugated dye (Proprietary)	-	100	Not classified.	-	[1]
Agilent Rot/AA					
Antimycin A	CAS: 1397-94-0	≤0.3	Acute Tox. 2, H300 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 28 mg/ kg M [Acute] = 10000 M [Chronic] = 10000	
(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 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 100 mg/kg M [Acute] = 100 M [Chronic] = 100	[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

★gilent GOx[1] ConstituentrOCR 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.

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 3/20

Agilent Rot/AA

rOCR Reagent

Mito-rOCR starter kit

Inhalation

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact: Rigilent 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. 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 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.

Ingestion : ▶ Gilent 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.

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

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 4/20

SECTION 4: First aid measures

do so by medical personnel.

Protection of first-aiders : Agilent GOx 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.

rOCR Reagent No action shall be taken involving any personal risk or

without suitable training.

Agilent Rot/AA No action shall be taken involving any personal risk or

without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

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.

Inhalation : Agilent GOx May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

rOCR Reagent 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 No known significant effects or critical hazards.

rOCR Reagent
Agilent Rot/AA
No known significant effects or critical hazards.
No known significant effects or critical hazards.

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

rOCR Reagent

No known significant effects or critical hazards.

Agilent Rot/AA

No known significant effects or critical hazards.

Over-exposure signs/symptoms

Ingestion

Skin contact

Eye contact : Agilent GOx No specific data.

rOCR Reagent Adverse symptoms may include the following:

irritation redness

Agilent Rot/AA No specific data.

Inhalation : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

rOCR Reagent Adverse symptoms may include the following:

respiratory tract irritation

coughing

Agilent Rot/AA

No specific data.

Regilent GOx
rOCR Reagent
Agilent Rot/AA

No specific data.
No specific data.
No specific data.

Ingestion: Rigilent GOx No specific data.

rOCR Reagent No specific data. Agilent Rot/AA No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

rOCR Reagent

Notes to physician : Agilent GOx 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.

Agilent Rot/AA Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 5/20

Mito-rOCR starter kit

SECTION 4: First aid measures

Specific treatments

: Agilent GOx No specific treatment.
rOCR Reagent No specific treatment.
Agilent Rot/AA No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Agilent GOx Use rOCR Reagent Use

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 Rot/AA
Agilent GOx
rOCR Reagent

None known.

Avoid high pressure media which could cause the formation

of a potentially explosible dust-air mixture.

Agilent Rot/AA None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: 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 combustion

products

: Agilent GOx

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

rOCR Reagent Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides metal oxide/oxides

Agilent Rot/AA Decomposition products may include the following materials:

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters

ille-lighters

: 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.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Agilent Rot/AA Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 6/20

SECTION 5: Firefighting measures

face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 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.

For emergency responders

: Agilent GOx

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".

6.2 Environmental

precautions

: 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.

6.3 Methods and material for containment and cleaning up

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 7/20

SECTION 6: Accidental release measures

Methods for cleaning up : 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.

6.4 Reference to other sections

: 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

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.

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

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. 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.

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 8/20

SECTION 7: Handling and storage

Agilent Rot/AA

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 : Rgilent 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.
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

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

7.3 Specific end use(s)

Recommendations : Agilent GOx Industrial applications, Professional applications.

rOCR Reagent Industrial applications, Professional applications. Agilent Rot/AA Industrial applications, Professional applications.

Industrial sector specific

solutions

Agilent GOx Not available.

rOCR Reagent Not available.

Agilent Rot/AA Not available.

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 9/20

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	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 5 mg/m³ 8 hours.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) 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

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 sideshields.

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.

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 10/20

SECTION 8: Exposure controls/personal protection

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

_							
Δ	n	n	Δ	2	ra	n	ce
_\	ν	ν	C	a	<u>ı a</u>	ш	CC

Colour

point

Melting point/freezing

or explosive limits

Physical state : Agilent GOx Solid.

rOCR Reagent Solid. [lyophilised / Powder.]

Not applicable.

Agilent Rot/AA Solid.

Agilent GOx
rOCR Reagent
Agilent Rot/AA White.

Odour : Agilent GOx Not available.

rOCR Reagent Not available. Agilent Rot/AA Odourless.

Odour threshold : Agilent GOx Not available.
rOCR Reagent Not available.

Agilent Rot/AA

Agilent GOx

rOCR Reagent

Agilent Rot/AA

Not available.

Not available.

Not available.

Not available.

Agilent Rot/AA Not available

Initial boiling point and : Agilent GOx Not available.

boiling range rOCR Reagent Not available.
Agilent Rot/AA Not available.
Flammability: Agilent GOx Not available.

rOCR Reagent Not available.
Agilent Rot/AA Not available.

Upper/lower flammability: Agilent GOx Not applicable.

rOCR Reagent

Agilent Rot/AA Not applicable.

Flash point : Agilent GOx Not applicable.

rOCR Reagent Not applicable.
Agilent Rot/AA Not applicable.
o-ignition : Railent GOx Not applicable.

Auto-ignition: Agilent GOxNot applicable.temperaturerOCR ReagentNot applicable.Agilent Rot/AANot applicable.Decomposition: Agilent GOxNot available.

temperature rOCR Reagent Not available.
Agilent Rot/AA Not available.

Not available.

pH : 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.

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 11/20

octanol/water

SECTION 9: Physical and chemical properties

Solubility(ies) Media Result

> Agilent GOx Soluble water rOCR Reagent

Soluble water

Agilent Rot/AA

water

Soluble Partition coefficient: n-Agilent GOx Not available.

rOCR Reagent Not available. Agilent Rot/AA Not applicable.

Vapour pressure Not available.

Agilent GOx **Evaporation rate** Not available.

> rOCR Reagent Not available. Agilent Rot/AA Not available.

: Agilent GOx Not available. **Relative density** rOCR Reagent Not available. Agilent Rot/AA Not available.

: Agilent GOx Not applicable. Vapour density Not applicable. rOCR Reagent

Agilent Rot/AA Not applicable. Agilent GOx **Explosive properties** Not available. Not available.

rOCR Reagent Agilent Rot/AA Not available. : Agilent GOx Not available. rOCR Reagent Not available.

Agilent Rot/AA Not available.

Particle characteristics

Oxidising properties

Not available. Median particle size : Agilent GOx rOCR Reagent Not available.

Agilent Rot/AA Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

: Agilent GOx 10.1 Reactivity 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.

10.2 Chemical stability Agilent GOx The product is stable.

> rOCR Reagent Shelf life: 24 months. Agilent Rot/AA The product is stable.

10.3 Possibility of : Agilent GOx hazardous reactions

Under normal conditions of storage and use, hazardous

reactions will not occur.

Under normal conditions of storage and use, hazardous rOCR Reagent

reactions will not occur.

Under normal conditions of storage and use, hazardous Agilent Rot/AA

reactions will not occur.

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version 12/20

Mito-rOCR starter kit

SECTION 10: Stability and reactivity

10.4 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.

10.5 Incompatible : 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.

10.6 Hazardous : 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

11.1 Information on toxicological effects

Acute toxicity

decomposition products

materials

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

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	N/A	N/A	N/A	N/A
	28	N/A	N/A	N/A	N/A
	100	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 %	-

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 13/20

SECTION 11: Toxicological information

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

: Not available. **Conclusion/Summary**

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.

Ingestion

Information on likely Agilent GOx Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

rOCR Reagent Not available. routes of exposure

Agilent Rot/AA Not available.

Potential acute health effects

Inhalation : Agilent GOx May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

rOCR Reagent 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.

Ingestion : Agilent GOx No known significant effects or critical hazards.

rOCR Reagent No known significant effects or critical hazards. Agilent Rot/AA No known significant effects or critical hazards.

Skin contact : Agilent GOx No known significant effects or critical hazards.

rOCR Reagent No known significant effects or critical hazards. Agilent Rot/AA No known significant effects or critical hazards.

Agilent GOx **Eye contact** No known significant effects or critical hazards.

rOCR Reagent Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the

No known significant effects or critical hazards. Agilent Rot/AA

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Agilent GOx Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

rOCR Reagent Adverse symptoms may include the following:

respiratory tract irritation

coughing

No specific data. Agilent Rot/AA Agilent GOx No specific data.

rOCR Reagent No specific data. Agilent Rot/AA No specific data.

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version 14/20

Mito-rOCR starter kit

Eye contact

SECTION 11: Toxicological information

Skin contact : Rgilent GOx No specific data.

rOCR Reagent No specific data.
Agilent Rot/AA No specific data.

Agilent GOx No specific data.

rOCR Reagent Adverse symptoms may include the following:

irritation redness

Agilent Rot/AA 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.

Agilent Rot/AA

Potential chronic health effects

Conclusion/Summary : Not available.

General : ▶Gilent GOx Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

No known significant effects or critical hazards.

rOCR Reagent Repeated or prolonged inhalation of dust may lead to

chronic respiratory irritation.

Carcinogenicity: Agilent GOx No known significant effects or critical hazards.

rOCR Reagent

No known significant effects or critical hazards.

Agilent Rot/AA

No known significant effects or critical hazards.

Mutagenicity: Agilent GOx

No known significant effects or critical hazards.

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.

rOCR Reagent No known significant effects or critical hazards.

Agilent Rot/AA No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Reproductive toxicity

Not available.

SECTION 12: Ecological information

12.1 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	A 1 050 0 000040 // 5 1 1	Fil. One of words and the	001
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-	Acute LC50 0.000019 mg/l Fresh water Acute EC50 190 µg/l Fresh water	Fish - Oncorhynchus mykiss Crustaceans - Simocephalus serrulatus - Larvae	96 hours 48 hours

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 15/20

Mito-rOCR	starter	kit
-----------	---------	-----

SECTION 12: Ecological information

6-one			
	Acute EC50 3.7 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 1.9 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.3 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 1.01 ppb	Fish - Oncorhynchus mykiss	32 days

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Agilent GOx Oxidase, glucose	OECD 301E Ready Biodegradability - Modified OECD Screening Test		adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Agilent GOx Oxidase, glucose	-		-		Readily	

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
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	4.1	25.7	Low

12.4 Mobility in soil

Soil/water partition

coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	νP	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 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version: 3 16/20

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

Methods of disposal

Packaging

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

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

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID 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

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

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 17/20

Mito-rOCR starter kit

SECTION 14: Transport information

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

EU Regulation (EC) No. 1907/2006 (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.

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

No listed substance

Label : Agilent GOx Not applicable.
rOCR Reagent Not applicable.

Agilent Rot/AA Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

Agilent Rot/AA

E1

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.

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 18/20

SECTION 15: Regulatory information

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.
Canada : Not determined.
China : Not determined.

Eurasian Economic

Union

: Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined. **Philippines** Not determined. Republic of Korea : Not determined. **Taiwan** : Not determined. **Thailand** : Not determined. : Not determined. **Turkey United States** : Not determined. **Viet Nam** : Not determined.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments might still

be required.

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

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

Full text of abbreviated H statements

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version : 3 19/20

SECTION 16: Other info	ormation
Agilent GOx H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Agilent Rot/AA H300 H301 H315	Fatal if swallowed. Toxic if swallowed. Causes skin irritation.
H319 H335 H400 H410	Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

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 : 15/04/2024

revision

Date of previous issue : 30/06/2023

Version : 3

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

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.

Date of issue/Date of revision : 15/04/2024 Date of previous issue : 30/06/2023 Version: 3 20/20