



Safety Data Sheet

Acuitas® AMR Gene Panel u5.47 Assay Control

SECTION 1: Identification of the substance or mixture

Product Code: CP3233
Product Name: Acuitas AMR Gene Panel u5.47 Assay Control, for use as a laboratory chemical

Manufacturer or Supplier's Details

Company: OpGen, Inc
708 Quince Orchard Road
Gaithersburg, MD USA
+1 301 869 9683
technicalsupport@opgen.com

24-hour Emergency Response: ChemTel, Inc.
800-255-3924
Outside of the U.S. +1-813-248-0585

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification Not a hazardous substance or mixture

Signal Word: Not Hazardous

Health Hazards: Not Hazardous

Physical Hazards: Not Hazardous

Environmental Hazards: Not Applicable

Hazard Statements: Not Applicable

Precautionary Statements

Prevention Not Applicable

Response Not Applicable

Storage Not Applicable

Disposal Not Applicable

Other Hazards Not Applicable

HMIS

Health 0

Flammability 0

Reactivity 0



Safety Data Sheet

Acuitas[®] AMR Gene Panel u5.47 Assay Control

SECTION 3: COMPOSITION OF INGREDIENTS

Chemical Name	CAS-No	EINECS-No	Weight %
Sodium Chloride	7647-14-5	231-598-3	<1.0
Sodium Phosphate Dibasic	7758-79-4	231-448-7	<0.5
Dihydrogen Potassium Phosphate	7778-77-0	231-913-4	<0.1
Potassium Chloride	7447-40-7	231-211-8	<0.1
D-Mannitol	69-65-8	200-711-8	<0.05
D-(+)-Trehelose Dihydrate	6138-23-4	202-739-6	<0.1
Bromophenol Blue, Sodium Salt	34725-61-6	252-170-2	<0.001
Water	7732-18-5	231-791-2	≤99

The product contains no substances which at their given concentration, are considered to be hazardous to health.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion:	Clean mouth with water and drink plenty of water afterwards. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Inhalation:	Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Most important symptoms and effects, both acute and delayed:	None
Notes to Physician:	Treat symptomatically.
Indication of any immediate medical attention and special treatment needed:	None

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media



Safety Data Sheet

Acuitas® AMR Gene Panel u5.47 Assay Control

Suitable extinguishing media:	Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Unsuitable extinguishing media:	No information available.
<u>Special hazards arising from the substance or mixture:</u>	No information available
Advice for fire-fighters:	Wear self-contained breathing apparatus and protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Ensure adequate ventilation Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 12 for more detail.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up:	Use personal protection equipment. Soak up with inert absorbent material.
Reference to other Sections	See section 12 for more information

SECTION 7: HANDLING AND STORAGE

Precautions for safe Handling:	Always wear recommended Personal Protective Equipment. No special handling advices are necessary.
Conditions for safe storage including any incompatibilities:	Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.
Specific end use(s):	For Laboratory Use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Engineering Measures:	None under normal use conditions.
Exposure Limits:	This product does not contain any hazardous material with occupational expose limits establish by the region specific regulatory bodies.
Personal Protective Equipment:	Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.



Safety Data Sheet

Acuitas® AMR Gene Panel u5.47 Assay Control

Respiratory Protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand Protection:	Wear impervious gloves.
Eye Protection:	Wear safety glasses with side shields (or goggles).
Skin and Body Protection:	Lightweight protective clothing.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.
Environmental Exposure Controls:	Prevent product from entering drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Form:	Dry Pellet	
Appearance:	No information available	
Odor:	No data available	
Odor Threshold:	No data available	
pH:	No data available	
Melting Point / Melting Range:	°C No data available	°F No data available
Boiling Point / Boiling Range:	°C No data available	°F No data available
Flash Point:	°C No data available	°F No data available
Autoignition Temperature:	°C No data available	°F No data available
Decomposition Temperature:	°C No data available	°F No data available
Evaporation Rate:	No data available	
Flammability (solid, gas):	No data available	
Oxidizing Properties:	No data available	
Upper explosion limit:	No data available	
Lower explosion limit:	No data available	
Vapor Pressure:	No data available	
Vapor Density:	No data available	
Viscosity:	No data available	
Relative density:	No data available	
Specific Gravity:	No data available	



Safety Data Sheet

Acuitas[®] AMR Gene Panel u5.47 Assay Control

Water Solubility:	No data available
Partition Coefficient:	No data available
n-octanol/water:	
Explosive Properties:	No data available
Other Information:	No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	None known
Chemical Stability:	Stable under normal conditions.
Materials to avoid:	None known
Possibility of hazardous reactions:	None under normal use conditions.
Conditions to Avoid:	None under normal processing.
Polymerization:	Hazardous polymerization does not occur.
Hazardous Decomposition Products:	None under normal use conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological effects:

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Sodium Chloride	3 g/kg (rat)	> 10 g/kg (rabbit)	>42 g/m ³ (rat) 1h
Sodium Phosphate Dibasic	17 g/kg (rat)	No data available	No data available
Dihydrogen Potassium Phosphate	No data available	LD50 > 4640 mg/kg (rabbit)	No data available
Potassium Chloride	LD50 = 2600 mg/kg (rat)	No data available	No data available
D-Mannitol	13.5 g/kg (rat)	No data available	No data available
D-(+)-Trehelose Dihydrate	No data available	No data available	No data available
Bromophenol Blue, Sodium Salt	No data available	No data available	No data available
Water	-	Not listed	Not listed



Safety Data Sheet

Acuitas[®] AMR Gene Panel u5.47 Assay Control

Principle Routes of Exposure:

Irritation:	No data available.
Corrosivity:	No data available.
Sensitization:	No data available.
STOT – Single Exposure	No data available.
STOT – Repeated Exposure	No data available.
Carcinogenicity:	No data available.
Mutagenicity:	No data available.
Reproductive Toxicity:	No data available.
Aspiration Hazard:	No data available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
Mobility:	See log Pow.
Biodegradation:	No information available.
Bioaccumulation:	No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data
Sodium Chloride	Not Listed	EC50=1000 mg/L (48 h)	Pimephals prome LC50=7650 mg/L (96 h)	Not Listed
Potassium Chloride	EC50=2500 mg/L (72 h)	EC50=825 mg/L (48 h)	Lepomis macrochinus LC50=1060 mg/L 96 h) Pimephales promeslas 750-1020 mg/L (96 h)	Not Listed

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport Information



Safety Data Sheet

Acuitas® AMR Gene Panel u5.47 Assay Control

<u>IATA / ADR / DOT-US /IMDG</u>	Not classified as dangerous in the meaning of transport regulations.
UN Number:	None
UN Proper Shipping Name:	Non-dangerous goods in sense of these transport regulations
Transport Hazard Class(es):	None
Packing Group	None
<u>Environmental Hazards:</u>	None
<u>Special Precautions for User:</u>	None
<u>Transport in Bulk According to Annex II of MARPOL 73-78 and the IBC Code:</u>	Not applicable

SECTION 15: REGULATORY INFORMATION

Component	US TSCA
Sodium Chloride	Listed
Sodium Phosphate Dibasic	Listed
Dihydrogen Potassium Phosphate	Listed
Potassium Chloride	Listed
D-Mannitol	Listed
D-(+)-Trehelose Dihydrate	Listed
Bromophenol Blue, Sodium Salt	Listed
Water	Listed

US Federal Regulations:

SARA 313: Not Applicable

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) This product does not contain HAPs.

US State Regulations

Chemical Name	Massachusetts-RTK	New Jersey-RTK	Pennsylvania-RTK	Illinois-RTK	Rhode Island-RTK
D-Mannitol	-	Listed	Listed	-	-
Trehelose Dihydrate	-	Listed	Listed	-	-



Safety Data Sheet

Acuitas® AMR Gene Panel u5.47 Assay Control

Sodium Phosphate Dibasic	Listed	Listed	Listed	-	-
Water	-	-	Listed	-	-

California Proposition 65:

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class:

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

SECTION 16: OTHER INFORMATION

Reason for Revision: New Document

“The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE”

End of Safety Data Sheet