



SAFETY DATA SHEET
Bioburden cassette, R2A Agar
SDS0010 - Rev E

1. IDENTIFICATION

Product Name	Bioburden cassette, R2A Agar
Recommended use of the chemical and restrictions on use	
Identified Uses	Microbiological culture medium
Restrictions on Use	Laboratory use only
Product Numbers	BR2A-048
Company Identification	Rapid Micro Biosystems, Inc. 1001 Pawtucket Boulevard Lowell, MA 01854
Customer Information Number	978-349-3200
Emergency Telephone Number	978-349-3200
Issue Date	17 Aug 2018
Supersedes Date	15 May 2015

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) and Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

2. HAZARD IDENTIFICATION (continued on following page)

Classification according to Regulation (EC) No 1272/2008 as amended.

Hazard Classification

Skin sensitizer Category 1
Eye Irritant Category 2

Label Elements

None required.

Hazard Symbols & Signal Word



Signal Word: WARNING!

Hazard Statements

H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.

Precautionary Statements (continued on following page)

Prevention

P101 – If medical advice is needed, have product container or label at hand.
P264 – Wash thoroughly after handling.
P280 – Wear protective gloves, protective clothing and eye protection.

Response

P302 + P352 - IF ON SKIN: wash with plenty of soap and water.

P333 + P313 – If skin irritation or rash occurs: get medical advice.

P305 + 351 + 338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 – If eye irritation persists: get medical attention.

P301 + P313 – IF SWALLOWED: Get medical attention.

Storage

None.

Disposal

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other Hazards

None.

Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity <10%

Acute dermal toxicity <10%

Acute inhalation toxicity <10%

Acute aquatic toxicity <10%

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Chemical Name	Concentration	CAS No.	EC No.	REACH Registration No.	M-Factor
Sodium Pyruvate	1.6%	113-24-6	204-024-4	01- 212076704 7-50-0003 01- 212076704 7-50-0004	No data available
Dipotassium phosphate	1.6%	7758-11-4	231-834-5	Data not available	No data available

4. FIRST- AID MEASURES (continued on following page)**Description of necessary first-aid measures****Eyes**

Rinse cautiously with water for a minimum of 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if symptoms develop.

Skin

Wash immediately with soap and water. If skin irritation develops, seek medical attention.

Ingestion

Consult a medical professional.

Inhalation

Not an expected route of entry.

Most important symptoms/effects, acute and delayed

Irritating to eyes, respiratory system and skin. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of immediate medical attention and special treatment needed

Aside from the information found under description of necessary first aid measures (above) and Most important symptoms/effects, acute and delayed, no additional symptoms and effects are anticipated. Treat as necessary.

Notes to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Suitable (and unsuitable) Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Select according to surrounding materials.

Specific hazards arising from the chemical

During heating or exposure to fire, poisonous gases may be produced.

Special Protective Actions for Fire-Fighters

In the event of fire, wear fully protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing – including safety glasses, laboratory coat and chemical resistant gloves.

Environmental Precautions

Prevent dispersion of material. Do not allow product to enter drains or watercourses.

Methods and materials for containment and cleaning up

Wipe up with inert material. Transfer into suitable containers for recovery or disposal. Dispose of as hazardous waste.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear personal protective equipment when handling. Do not eat, drink or smoke while handling this material. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Obey expiration dates.

Conditions for safe storage

Store at 2-8°C away from heat and direct sunlight. Do not store with incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product does not contain any relevant quantities of materials with critical values that require workplace monitoring.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of every workday.

Individual protection measures**Respiratory Protection**

No protective equipment is needed under normal use.

Skin Protection

Chemical resistant gloves.

Eye/Face Protection

Safety glasses or goggles.

Body Protection

Laboratory coat or other protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

	Physical State	Solid.
	Color	Opaque, colorless.
Odor		No data available.
Odor Threshold		No data available.
pH		7.2 ± 0.2
Density		No data available.
Boiling Range/Point (°C/F)		No data available.
Melting Point (°C/F)		No data available.
Flash Point (PMCC) (°C/F)		No data available.
Vapor Pressure		No data available.
Evaporation Rate (BuAc=1)		No data available.
Solubility in Water		No data available.
Vapor Density (Air = 1)		No data available.
VOC (g/l)		No data available.
Partition coefficient (n-octanol/water)		No data available.
Viscosity		No data available.
Auto-ignition Temperature		This product is not expected to auto ignite.
Decomposition Temperature		No data available.
Upper explosive limit		No data available.
Lower explosive limit		No data available.
Flammability (solid, gas)		No data available.

10. **STABILITY AND REACTIVITY**

Reactivity

No known reactivity.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization not anticipated to occur.

Conditions to Avoid

Contact with incompatible products, exposure to moisture, excess heat, dust formation.

Incompatible Materials

Strong oxidizing agents, acids.

Hazardous Decomposition Products Carbon

oxides, sodium oxides.

11. **TOXICOLOGICAL INFORMATION**

Acute Toxicity

Sub-acute to chronic toxicity – target organs: eyes, kidneys and skin.

Specific Target Organ Toxicity (STOT) – single exposure

No data available.

Specific Target Organ Toxicity (STOT) – repeat exposure

No data available.

Serious Eye damage/Irritation

H320: Causes eye irritation.

Skin Corrosion/Irritation

H315: Causes skin irritation.

Respiratory or Skin Sensitization

No sensitizing effects known.

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity No

data available.

Reproductive Toxicity No

data available.

Aspiration Hazard

Not an aspiration hazard.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

No relevant studies identified.

Mobility in soil

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bioaccumulative Potential

No relevant studies identified.

Other adverse effects

No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

General information:

Dispose of waste and residues in accordance with local authority requirements.

Disposal methods:

Discharge, treatment, or disposal may be subject to national, state, or local laws.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data	Not Regulated.
UN Proper Shipping Name	Not Regulated.
UN Class	None.
UN Number	None.
UN Packaging Group	None.
Classification for AIR Transportation (IATA)	Consult current IATA Regulations prior to shipping by air.
Environmental Hazards	None identified.

15. REGULATORY INFORMATION

United States TSCA Inventory

<u>Name</u>	<u>CAS-No.</u>
<i>Sodium pyruvate</i>	113-24-6
<i>Dipotassium phosphate</i>	7758-11-4

Canada DSL Inventory

Components of this product have not been verified for inclusion on the Domestic Substance List (DSL).

California Proposition 65

This product does not contain any materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

EU Regulations

EU Regulations Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none
Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none
Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:
none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:
none

16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists

CAS#: Chemical Abstracts Service Number

IARC: International Agency for Research on Cancer

LD50: Lethal Dose 50%

N/A: Not Applicable

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

VOC: Volatile Organic Compounds

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