SAFETY DATA SHEET



PathDetect SRF cis Reporting System, Part Number 219081

Section 1. Identification

Product identifier : PathDetect SRF cis Reporting System, Part Number 219081

Part no. (chemical kit) : 21908

Part no. : pSRF-Luc Vector 219082-51

pFC-PKA Plasmid 219070-51

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

Identified uses : Analytical reagent.

 pSRF-Luc Vector
 0.05 ml (50 μg 1 μg/μl)

 pFC-PKA Plasmid
 0.2 ml (5 μg 25 ng/μl)

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

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

Storage

GHS label elements

Signal word : pSRF-Luc Vector No signal word.

pFC-PKA Plasmid No signal word.

Hazard statements : pSRF-Luc Vector No known significant effects or critical hazards.

pFC-PKA Plasmid No known significant effects or critical hazards.

Precautionary statements

Prevention: pSRF-Luc Vector Not applicable.

pFC-PKA Plasmid Not applicable.
pSRF-Luc Vector Not applicable.

Response : pSRF-Luc Vector Not applicable. pFC-PKA Plasmid Not applicable.

: pSRF-Luc Vector Not applicable. PFC-PKA Plasmid Not applicable.

Disposal : pSRF-Luc Vector Not applicable.

pFC-PKA Plasmid Not applicable.

Supplemental label elements

Additional warning : pSRF-Luc Vector Not applicable.

phrases pFC-PKA Plasmid Not applicable.

Other hazards which do not : pSRF-Luc Vector None known. result in classification pFC-PKA Plasmid None known.

Date of issue/Date of revision : 20/03/2024 Date of previous issue : 28/04/2021 Version : 7 1/11

Section 3. Composition and ingredient information

Substance/mixture : pSRF-Luc Vector Mixture pFC-PKA Plasmid Mixture

CAS number/other identifiers

There are no 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%.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: pSRF-Luc Vector 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.

pFC-PKA Plasmid 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 : pSRF-Luc Vector Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

pFC-PKA Plasmid Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Skin contact: pSRF-Luc Vector Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

pFC-PKA Plasmid Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Ingestion : pŚRF-Luc Vector 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

vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

pFC-PKA Plasmid 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: pSRF-Luc Vector No known significant effects or critical hazards.

pFC-PKA Plasmid No known significant effects or critical hazards.

Inhalation : pSRF-Luc Vector No known significant effects or critical hazards.

pFC-PKA Plasmid No known significant effects or critical hazards.

Skin contact: pSRF-Luc Vector No known significant effects or critical hazards.

pFC-PKA Plasmid No known significant effects or critical hazards.

: pSRF-Luc Vector No known significant effects or critical hazards.

Ingestion : pSRF-Luc Vector No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: pSRF-Luc Vector No specific data.

pFC-PKA Plasmid No specific data.

Inhalation : pSRF-Luc Vector No specific data. pFC-PKA Plasmid No specific data.

Date of issue/Date of revision : 20/03/2024 Date of previous issue : 28/04/2021 Version : 7 2/11

Section 4. First aid measures

Skin contact : pSRF-Luc Vector No specific data.

> pFC-PKA Plasmid No specific data. : pSRF-Luc Vector No specific data.

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

pFC-PKA Plasmid

Notes to physician : pSRF-Luc Vector Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

No specific data.

pFC-PKA Plasmid Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

No specific treatment. **Specific treatments** : pSRF-Luc Vector

pFC-PKA Plasmid No specific treatment.

Protection of first-aiders No action shall be taken involving any personal risk : pSRF-Luc Vector

or without suitable training.

pFC-PKA Plasmid No action shall be taken involving any personal risk

or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

	Extina	uishina	media
--	--------	---------	-------

Ingestion

Suitable extinguishing : pSRF-Luc Vector Use an extinguishing agent suitable for the media

surrounding fire.

pFC-PKA Plasmid Use an extinguishing agent suitable for the

None known.

surrounding fire.

Unsuitable extinguishing

media

pFC-PKA Plasmid

None known.

Specific hazards arising

from the chemical

: pSRF-Luc Vector

: pSRF-Luc Vector

In a fire or if heated, a pressure increase will occur

and the container may burst.

pFC-PKA Plasmid In a fire or if heated, a pressure increase will occur

and the container may burst.

Hazardous thermal

decomposition products

: pSRF-Luc Vector pFC-PKA Plasmid No specific data. No specific data.

Special protective actions

for fire-fighters

: pSRF-Luc Vector

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.

pFC-PKA Plasmid 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 : pSRF-Luc Vector

Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Fire-fighters should wear appropriate protective pFC-PKA Plasmid

> equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Date of issue/Date of revision : 20/03/2024 : 28/04/2021 Version :7 3/11 Date of previous issue

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

: pSRF-Luc Vector

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.

pFC-PKA Plasmid

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.

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".

pFC-PKA Plasmid

Environmental precautions: pSRF-Luc Vector

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).

pFC-PKA Plasmid 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).

Methods and material for containment and cleaning up

Methods for cleaning up : pSRF-Luc Vector Sto

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

pFC-PKA Plasmid Stop leak if without risk. Move containers from spill

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : pSRF-Luc Vector Put on appropriate personal protective equipment

(see Section 8).

pFC-PKA Plasmid Put on appropriate personal protective equipment

(see Section 8).

Date of issue/Date of revision : 20/03/2024 Date of previous issue : 28/04/2021 Version : 7 4/11

Section 7. Handling and storage

Advice on general occupational hygiene : pSRF-Luc Vector

pFC-PKA Plasmid

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.

Conditions for safe storage, : pSRF-Luc Vector including any incompatibilities

pFC-PKA Plasmid

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. 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

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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

Date of issue/Date of revision : 20/03/2024 Date of previous issue : 28/04/2021 Version: 7 5/11

Section 8. Exposure controls and personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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

Odour threshold

Odour

Physical state : pSRF-Luc Vector Liquid. pFC-PKA Plasmid Liquid.

Colour : pSRF-Luc Vector Not available. pFC-PKA Plasmid Not available.

: pSRF-Luc Vector Not available.

pFC-PKA Plasmid Not available.

: pSRF-Luc Vector Not available. pFC-PKA Plasmid Not available.

pH : pSRF-Luc Vector 7.5 pFC-PKA Plasmid 7.5

Melting point/freezing point : pSRF-Luc Vector 0°C (32°F)

pFC-PKA Plasmid 0°C (32°F)

Boiling point, initial boiling : pSRF-Luc Vector 100°C (212°F)

point, and boiling range pFC-PKA Plasmid 100°C (212°F)

Flash point : pSRF-Luc Vector Not available. pFC-PKA Plasmid Not available.

Evaporation rate : pSRF-Luc Vector Not available. pFC-PKA Plasmid Not available.

Flammability : pSRF-Luc Vector Not applicable.
pFC-PKA Plasmid Not applicable.
Lower and upper explosion : pSRF-Luc Vector Not available.

Lower and upper explosion : pSRF-Luc Vector pFC-PKA Plasmid

Vapour pressure :

Date of issue/Date of revision : 20/03/2024 Date of previous issue : 28/04/2021 Version : 7 6/11

Not available.

Section 9. Physical and chemical properties and safety characteristics

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
pSRF-Luc Vector						
water	17.5	2.3	-	92.258	12.3	-
pFC-PKA Plasmid						
water	17.5	2.3	-	92.258	12.3	-

Relative vapour density : pSRF-Luc Vector Not available.

pFC-PKA Plasmid Not available.
pSRF-Luc Vector Not available.
pFC-PKA Plasmid Not available.

Solubility(ies) : Media Result

pŚRF-Luc Vector
water Soluble
pFC-PKA Plasmid

water Soluble

Partition coefficient: noctanol/water

Relative density

Auto-ignition temperature

Decomposition temperature

Viscosity

Particle characteristics
Median particle size

: pŚRF-Luc Vector Not applicable. pFC-PKA Plasmid Not applicable.

: Not available.

: pSRF-Luc Vector pFC-PKA Plasmid Not available.
 : pSRF-Luc Vector Not available. pFC-PKA Plasmid Not available. Not available.

: pSRF-Luc Vector Not applicable. pFC-PKA Plasmid Not applicable.

Section 10. Stability and reactivity

Reactivity: pSRF-Luc Vector No specific test data related to reactivity available for

this product or its ingredients.

pFC-PKA Plasmid No specific test data related to reactivity available for

this product or its ingredients.

Chemical stability : pSRF-Luc Vector The product is stable.

pFC-PKA Plasmid The product is stable.

Possibility of hazardous

reactions

: pSRF-Luc Vector

Under normal conditions of storage and use,

hazardous reactions will not occur.

pFC-PKA Plasmid Under normal conditions of storage and use,

hazardous reactions will not occur.

Conditions to avoid : pSRF-Luc Vector No specific data.

pFC-PKA Plasmid No specific data.

Incompatible materials: pSRF-Luc Vector May react or be incompatible with oxidising materials.

pFC-PKA Plasmid May react or be incompatible with oxidising materials.

Date of issue/Date of revision : 20/03/2024 Date of previous issue : 28/04/2021 Version : 7 7/11

Section 10. Stability and reactivity

Hazardous decomposition

products

: pSRF-Luc Vector

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

pFC-PKA Plasmid

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

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

Skin contact

pSRF-Luc Vector Not available. pFC-PKA Plasmid Not available.

Potential acute health effects

Eye contact : pSRF-Luc Vector

pFC-PKA Plasmid No known significant effects or critical hazards.

: pSRF-Luc Vector No known significant effects or critical hazards.

No known significant effects or critical hazards.

Inhalation: pSRF-Luc Vector
pFC-PKA PlasmidNo known significant effects or critical hazards.No known significant effects or critical hazards.

: pSRF-Luc Vector No known significant effects or critical hazards. pFC-PKA Plasmid No known significant effects or critical hazards.

Ingestion : pSRF-Luc Vector No known significant effects or critical hazards.

pFC-PKA Plasmid

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: pSRF-Luc Vector No specific data.

pFC-PKA Plasmid No specific data.

Inhalation : pSRF-Luc Vector No specific data.

pFC-PKA Plasmid No specific data.

: pSRF-Luc Vector No specific data.

Skin contact : pSRF-Luc Vector No specific data. pFC-PKA Plasmid No specific data.

Section 11. Toxicological information

Ingestion : pSRF-Luc Vector No specific data.
pFC-PKA Plasmid No specific data.

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : pSRF-Luc Vector No known significant effects or critical hazards.

pFC-PKA Plasmid No known significant effects or critical hazards.

Carcinogenicity: pSRF-Luc Vector No known significant effects or critical hazards.

pFC-PKA Plasmid No known significant effects or critical hazards.

Mutagenicity: pSRF-Luc Vector No known significant effects or critical hazards.

pFC-PKA Plasmid No known significant effects or critical hazards.

: pSRF-Luc Vector No known significant effects or critical hazards.

pFC-PKA Plasmid No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Reproductive toxicity

N/A

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition : Not available.

coefficient (Koc)

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

Date of issue/Date of revision : 20/03/2024 Date of previous issue : 28/04/2021 Version : 7 9/11

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 container must be disposed of in a safe way. 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 .

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: Not available.

to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

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 : All components are listed or exempted. **New Zealand** : All components are listed or exempted. **United States** : All components are active or exempted.

Section 16. Any other relevant information

History

Date of issue/Date of : 20/03/2024

revision

Date of previous issue : 28/04/2021

: 7 Version

Date of issue/Date of revision : 20/03/2024 : 28/04/2021 Version: 7 10/11 Date of previous issue

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

Not classified.

▼ 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.

Date of issue/Date of revision : 20/03/2024 Date of previous issue : 28/04/2021 Version : 7 11/11