Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

Agilent Technologies

PathDetect Egr-1 cis Reporting System, Part Number 240129

Section 1. Identification

Product identifier : PathDetect Egr-1 cis Reporting System, Part Number 240129

Part no. (chemical kit) : 240129

Part no. : pEgr-1-Luc Plasmid 240130-51
pCIS-CK Negative Control Plasmid 219090-51

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

Identified uses : Analytical reagent.
pEgr-1-Luc Plasmid 0.05 ml (50 µg 1 µg/µl)
pCIS-CK Negative Control Plasmid 0.05 ml (50 µg 1 µg/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.

GHS label elements

Signal word : pEgr-1-Luc Plasmid No signal word.
pCIS-CK Negative Control Plasmid No signal word.

Hazard statements : pEgr-1-Luc Plasmid No known significant effects or critical hazards.
pCIS-CK Negative Control Plasmid No known significant effects or critical hazards.

Precautionary statements

Prevention : pEgr-1-Luc Plasmid Not applicable.
pCIS-CK Negative Control Plasmid Not applicable.

Response : pEgr-1-Luc Plasmid Not applicable.
pCIS-CK Negative Control Plasmid Not applicable.

Storage : pEgr-1-Luc Plasmid Not applicable.
pCIS-CK Negative Control Plasmid Not applicable.

Disposal : pEgr-1-Luc Plasmid Not applicable.
pCIS-CK Negative Control Plasmid Not applicable.

Supplemental label elements

Additional warning phrases : pEgr-1-Luc Plasmid Not applicable.
pCIS-CK Negative Control Plasmid Not applicable.

Section 2. Hazard(s) identification

Other hazards which do not result in classification	:	pEgr-1-Luc Plasmid	None known.
		pCIS-CK Negative Control Plasmid	None known.

Section 3. Composition and ingredient information

Substance/mixture	:	pEgr-1-Luc Plasmid	Mixture
		pCIS-CK Negative Control 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	:	pEgr-1-Luc 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.
		pCIS-CK Negative Control 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	:	pEgr-1-Luc Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		pCIS-CK Negative Control Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	pEgr-1-Luc Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		pCIS-CK Negative Control Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	pEgr-1-Luc 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.
		pCIS-CK Negative Control 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	:	pEgr-1-Luc Plasmid	No known significant effects or critical hazards.
		pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.
Inhalation	:	pEgr-1-Luc Plasmid	No known significant effects or critical hazards.
		pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.

Section 4. First aid measures

Skin contact	:	pEgr-1-Luc Plasmid	No known significant effects or critical hazards.
		pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.
Ingestion	:	pEgr-1-Luc Plasmid	No known significant effects or critical hazards.
		pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	pEgr-1-Luc Plasmid	No specific data.
		pCIS-CK Negative Control Plasmid	No specific data.
Inhalation	:	pEgr-1-Luc Plasmid	No specific data.
		pCIS-CK Negative Control Plasmid	No specific data.
Skin contact	:	pEgr-1-Luc Plasmid	No specific data.
		pCIS-CK Negative Control Plasmid	No specific data.
Ingestion	:	pEgr-1-Luc Plasmid	No specific data.
		pCIS-CK Negative Control Plasmid	No specific data.

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

Notes to physician	:	pEgr-1-Luc Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		pCIS-CK Negative Control Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	pEgr-1-Luc Plasmid	No specific treatment.
		pCIS-CK Negative Control Plasmid	No specific treatment.
Protection of first-aiders	:	pEgr-1-Luc Plasmid	No action shall be taken involving any personal risk or without suitable training.
		pCIS-CK Negative Control Plasmid	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	:	pEgr-1-Luc Plasmid	Use an extinguishing agent suitable for the surrounding fire.
		pCIS-CK Negative Control Plasmid	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	pEgr-1-Luc Plasmid	None known.
		pCIS-CK Negative Control Plasmid	None known.
Specific hazards arising from the chemical	:	pEgr-1-Luc Plasmid	In a fire or if heated, a pressure increase will occur and the container may burst.
		pCIS-CK Negative Control Plasmid	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	:	pEgr-1-Luc Plasmid	No specific data.
		pCIS-CK Negative Control Plasmid	No specific data.

Section 5. Firefighting measures

Special protective actions for fire-fighters	:	pEgr-1-Luc 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.
		pCIS-CK Negative Control 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	:	pEgr-1-Luc Plasmid	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
		pCIS-CK Negative Control Plasmid	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	pEgr-1-Luc 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.
		pCIS-CK Negative Control 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.
For emergency responders	:	pEgr-1-Luc Plasmid	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".
		pCIS-CK Negative Control Plasmid	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	pEgr-1-Luc 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).
		pCIS-CK Negative Control 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	:	pEgr-1-Luc 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.
		pCIS-CK Negative Control 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

Section 6. Accidental release measures

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	:	pEgr-1-Luc Plasmid	Put on appropriate personal protective equipment (see Section 8).
		pCIS-CK Negative Control Plasmid	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	pEgr-1-Luc 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.
		pCIS-CK Negative Control 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.
Conditions for safe storage, including any incompatibilities	:	pEgr-1-Luc 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.
		pCIS-CK Negative Control 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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Section 8. Exposure controls and personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

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

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

Skin protection

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

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state	:	pEgr-1-Luc Plasmid	Liquid.
		pCIS-CK Negative Control Plasmid	Liquid.
Colour	:	pEgr-1-Luc Plasmid	Not available.
		pCIS-CK Negative Control Plasmid	Not available.
Odour	:	pEgr-1-Luc Plasmid	Not available.
		pCIS-CK Negative Control Plasmid	Not available.
Odour threshold	:	pEgr-1-Luc Plasmid	Not available.
		pCIS-CK Negative Control Plasmid	Not available.
pH	:	pEgr-1-Luc Plasmid	7.5
		pCIS-CK Negative Control Plasmid	7.5
Melting point/freezing point	:	pEgr-1-Luc Plasmid	0°C (32°F)
		pCIS-CK Negative Control Plasmid	0°C (32°F)
Boiling point, initial boiling point, and boiling range	:	pEgr-1-Luc Plasmid	100°C (212°F)
		pCIS-CK Negative Control Plasmid	100°C (212°F)

Section 9. Physical and chemical properties and safety characteristics

Flash point :
pEgr-1-Luc Plasmid — Not available.
pCIS-CK Negative Control Plasmid — Not available.

Evaporation rate :
pEgr-1-Luc Plasmid — Not available.
pCIS-CK Negative Control Plasmid — Not available.

Flammability :
pEgr-1-Luc Plasmid — Not applicable.
pCIS-CK Negative Control Plasmid — Not applicable.

Lower and upper explosion limit/flammability limit :
pEgr-1-Luc Plasmid — Not available.
pCIS-CK Negative Control Plasmid — Not available.

Vapour pressure :

Ingredient name	Vapour Pressure at 20˚C			Vapour pressure at 50˚C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
pEgr-1-Luc Plasmid						
water	23.8	3.2		92.258	12.3	
pCIS-CK Negative Control Plasmid						
water	23.8	3.2		92.258	12.3	

Relative vapour density :
pEgr-1-Luc Plasmid — Not available.
pCIS-CK Negative Control Plasmid — Not available.

Relative density :
pEgr-1-Luc Plasmid — Not available.
pCIS-CK Negative Control Plasmid — Not available.

Solubility(ies) :

Media	Result
pEgr-1-Luc Plasmid	
water	Soluble
pCIS-CK Negative Control Plasmid	
water	Soluble

Partition coefficient: n-octanol/water :
pEgr-1-Luc Plasmid — Not applicable.
pCIS-CK Negative Control Plasmid — Not applicable.

Auto-ignition temperature :
pEgr-1-Luc Plasmid — Not available.
pCIS-CK Negative Control Plasmid — Not available.

Decomposition temperature :
pEgr-1-Luc Plasmid — Not available.
pCIS-CK Negative Control Plasmid — Not available.

Viscosity :
pEgr-1-Luc Plasmid — Not available.
pCIS-CK Negative Control Plasmid — Not available.

Particle characteristics

Median particle size :
pEgr-1-Luc Plasmid — Not applicable.
pCIS-CK Negative Control Plasmid — Not applicable.

Section 10. Stability and reactivity

Reactivity	:	pEgr-1-Luc Plasmid	No specific test data related to reactivity available for this product or its ingredients.
		pCIS-CK Negative Control Plasmid	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	pEgr-1-Luc Plasmid	The product is stable.
		pCIS-CK Negative Control Plasmid	The product is stable.
Possibility of hazardous reactions	:	pEgr-1-Luc Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur.
		pCIS-CK Negative Control Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	pEgr-1-Luc Plasmid	No specific data.
		pCIS-CK Negative Control Plasmid	No specific data.
Incompatible materials	:	pEgr-1-Luc Plasmid	May react or be incompatible with oxidising materials.
		pCIS-CK Negative Control Plasmid	May react or be incompatible with oxidising materials.
Hazardous decomposition products	:	pEgr-1-Luc Plasmid	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		pCIS-CK Negative Control 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.

Section 11. Toxicological information

Information on likely routes of exposure	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	Not available. Not available.

Potential acute health effects

Eye contact	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	No specific data. No specific data.
Inhalation	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	No specific data. No specific data.
Skin contact	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	No specific data. No specific data.
Ingestion	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	No specific data. No specific data.

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

Short term exposure

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

Long term exposure

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

Potential chronic health effects

General	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	:	pEgr-1-Luc Plasmid pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Section 11. Toxicological information

Acute toxicity estimates

N/A

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

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

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its 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 to IMO instruments : Not available.

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

Section 15. Regulatory information

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.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Eurasian Economic Union : **Russian Federation inventory**: All components are listed or exempted.

Japan : **Japan inventory (CSCL)**: All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : All components are listed or exempted.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 27/12/2022

Date of previous issue : 02/12/2019

Version : 6

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.

Section 16. Any other relevant information

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.