Conforms to HPR 2015

SAFETY DATA SHEET

Agilent Technologies

PathDetect C/EBP cis Reporting System, Part Number 240111

Section 1. Identification

Product identifier : PathDetect C/EBP cis Reporting System, Part Number 240111

Part no. (chemical kit) : 240111

Part no. :

pCIS-CK Negative Control Plasmid	219090-51
pC/EBP-Luc Plasmid	240112-51

Material uses : Analytical reagent.

pCIS-CK Negative Control Plasmid	0.05 ml (50 µg	1 µg/µl)
pC/EBP-Luc Plasmid	0.05 ml (50 µg	1 µg/µl)

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

Emergency telephone number (with hours of operation) : CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

Not classified.

GHS label elements

Signal word :	pCIS-CK Negative Control Plasmid	No signal word.
	pC/EBP-Luc Plasmid	No signal word.
Hazard statements :	pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.
	pC/EBP-Luc Plasmid	No known significant effects or critical hazards.

Precautionary statements

Prevention :	pCIS-CK Negative Control Plasmid	Not applicable.
	pC/EBP-Luc Plasmid	Not applicable.
Response :	pCIS-CK Negative Control Plasmid	Not applicable.
	pC/EBP-Luc Plasmid	Not applicable.
Storage :	pCIS-CK Negative Control Plasmid	Not applicable.
	pC/EBP-Luc Plasmid	Not applicable.
Disposal :	pCIS-CK Negative Control Plasmid	Not applicable.
	pC/EBP-Luc Plasmid	Not applicable.
Supplemental label elements :	pCIS-CK Negative Control Plasmid	None known.
	pC/EBP-Luc Plasmid	None known.
Other hazards which do not result in classification :	pCIS-CK Negative Control Plasmid	None known.
	pC/EBP-Luc Plasmid	None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	pCIS-CK Negative Control Plasmid	Mixture
		pC/EBP-Luc Plasmid	Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact	:	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.
		pC/EBP-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.
Inhalation	:	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.
		pC/EBP-Luc Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	pCIS-CK Negative Control Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		pC/EBP-Luc Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	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.
		pC/EBP-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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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

Section 4. First-aid measures

Over-exposure signs/symptoms

Eye contact	:	pCIS-CK Negative Control Plasmid	No specific data.
		pC/EBP-Luc Plasmid	No specific data.
Inhalation	:	pCIS-CK Negative Control Plasmid	No specific data.
		pC/EBP-Luc Plasmid	No specific data.
Skin contact	:	pCIS-CK Negative Control Plasmid	No specific data.
		pC/EBP-Luc Plasmid	No specific data.
Ingestion	:	pCIS-CK Negative Control Plasmid	No specific data.
		pC/EBP-Luc Plasmid	No specific data.

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

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

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

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

Section 5. Fire-fighting measures

Special protective actions for fire-fighters	:	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.
		pC/EBP-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.
Special protective equipment for fire-fighters	:	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.
		pC/EBP-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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	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 spilled material. Put on appropriate personal protective equipment.
		pC/EBP-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 spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	pCIS-CK Negative Control Plasmid	If specialized 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".
		pC/EBP-Luc Plasmid	If specialized 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	:	pCIS-CK Negative Control Plasmid	Avoid dispersal of spilled 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).
		pC/EBP-Luc Plasmid	Avoid dispersal of spilled 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 materials for containment and cleaning up

Section 6. Accidental release measures

Methods for cleaning up	:	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 inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
		pC/EBP-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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	pCIS-CK Negative Control Plasmid	Put on appropriate personal protective equipment (see Section 8).
		pC/EBP-Luc Plasmid	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	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.
		pC/EBP-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.
Conditions for safe storage, including any incompatibilities	:	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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
		pC/EBP-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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

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

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	:	pCIS-CK Negative Control Plasmid	Liquid.
		pC/EBP-Luc Plasmid	Liquid.
Color	:	pCIS-CK Negative Control Plasmid	Not available.
		pC/EBP-Luc Plasmid	Not available.
Odor	:	pCIS-CK Negative Control Plasmid	Not available.
		pC/EBP-Luc Plasmid	Not available.

Section 9. Physical and chemical properties and safety characteristics

Odor threshold :
pCIS-CK Negative Control Plasmid — Not available.
pC/EBP-Luc Plasmid — Not available.

pH :
pCIS-CK Negative Control Plasmid — 7.5
pC/EBP-Luc Plasmid — 7.5

Melting point/freezing point :
pCIS-CK Negative Control Plasmid — 0°C (32°F)
pC/EBP-Luc Plasmid — 0°C (32°F)

Boiling point, initial boiling point, and boiling range :
pCIS-CK Negative Control Plasmid — 100°C (212°F)
pC/EBP-Luc Plasmid — 100°C (212°F)

Flash point :

Ingredient name	Closed cup °C	Closed cup °F	Closed cup Method	Open cup °C	Open cup °F	Open cup Method
pCIS-CK Negative Control Plasmid						
Edetic acid	>100	>212	DIN 51758			
pC/EBP-Luc Plasmid						
Edetic acid	>100	>212	DIN 51758			

Evaporation rate :
pCIS-CK Negative Control Plasmid — Not available.
pC/EBP-Luc Plasmid — Not available.

Flammability :
pCIS-CK Negative Control Plasmid — Not applicable.
pC/EBP-Luc Plasmid — Not applicable.

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

Vapor pressure :

Ingredient name	Vapor Pressure at 20˚C mm Hg	Vapor Pressure at 20˚C kPa	Vapor Pressure at 20˚C Method	Vapor pressure at 50˚C mm Hg	Vapor pressure at 50˚C kPa	Vapor pressure at 50˚C Method
pCIS-CK Negative Control Plasmid						
water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	
pC/EBP-Luc Plasmid						
water	23.8	3.2		92.258	12.3	
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0.000027	0.0000036		0.000007501	0.000001	

Relative vapor density :
pCIS-CK Negative Control Plasmid — Not available.
pC/EBP-Luc Plasmid — Not available.

Relative density :
pCIS-CK Negative Control Plasmid — Not available.
pC/EBP-Luc Plasmid — Not available.

Section 9. Physical and chemical properties and safety characteristics

Solubility :
pCIS-CK Negative Control Plasmid: Easily soluble in the following materials: cold water and hot water.
pC/EBP-Luc Plasmid: Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water :
pCIS-CK Negative Control Plasmid: Not applicable.
pC/EBP-Luc Plasmid: Not applicable.

Auto-ignition temperature :

Ingredient name	°C	°F	Method
pCIS-CK Negative Control Plasmid			
Edetic acid	>400	>752	VDI 2263
pC/EBP-Luc Plasmid			
Edetic acid	>400	>752	VDI 2263

Decomposition temperature :
pCIS-CK Negative Control Plasmid: Not available.
pC/EBP-Luc Plasmid: Not available.

Viscosity :
pCIS-CK Negative Control Plasmid: Not available.
pC/EBP-Luc Plasmid: Not available.

Particle characteristics

Median particle size :
pCIS-CK Negative Control Plasmid: Not applicable.
pC/EBP-Luc Plasmid: Not applicable.

Section 10. Stability and reactivity

Reactivity :
pCIS-CK Negative Control Plasmid: No specific test data related to reactivity available for this product or its ingredients.
pC/EBP-Luc Plasmid: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability :
pCIS-CK Negative Control Plasmid: The product is stable.
pC/EBP-Luc Plasmid: The product is stable.

Possibility of hazardous reactions :
pCIS-CK Negative Control Plasmid: Under normal conditions of storage and use, hazardous reactions will not occur.
pC/EBP-Luc Plasmid: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid :
pCIS-CK Negative Control Plasmid: No specific data.
pC/EBP-Luc Plasmid: No specific data.

Incompatible materials :
pCIS-CK Negative Control Plasmid: May react or be incompatible with oxidizing materials.
pC/EBP-Luc Plasmid: May react or be incompatible with oxidizing materials.

Section 10. Stability and reactivity

Hazardous decomposition products	:	pCIS-CK Negative Control Plasmid	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		pC/EBP-Luc 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.

Sensitization

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 the likely routes of exposure	:	pCIS-CK Negative Control Plasmid	Not available.
		pC/EBP-Luc Plasmid	Not available.

Potential acute health effects

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

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact	:	pCIS-CK Negative Control Plasmid	No specific data.
		pC/EBP-Luc Plasmid	No specific data.
Inhalation	:	pCIS-CK Negative Control Plasmid	No specific data.
		pC/EBP-Luc Plasmid	No specific data.
Skin contact	:	pCIS-CK Negative Control Plasmid	No specific data.
		pC/EBP-Luc Plasmid	No specific data.
Ingestion	:	pCIS-CK Negative Control Plasmid	No specific data.
		pC/EBP-Luc Plasmid	No specific data.

Delayed and immediate effects and also 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	:	pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.
		pC/EBP-Luc Plasmid	No known significant effects or critical hazards.
Carcinogenicity	:	pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.
		pC/EBP-Luc Plasmid	No known significant effects or critical hazards.
Mutagenicity	:	pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.
		pC/EBP-Luc Plasmid	No known significant effects or critical hazards.
Reproductive toxicity	:	pCIS-CK Negative Control Plasmid	No known significant effects or critical hazards.
		pC/EBP-Luc Plasmid	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Section 12. Ecological information

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 minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

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.

Section 15. Regulatory information

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : 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. Other information

History

Date of issue/Date of revision : 05/16/2022

Date of previous issue : 09/25/2019

Version : 6

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HPR = Hazardous Products Regulations
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
UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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