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

SAFETY DATA SHEET
PathDetect NF-kB cis Reporting System, Part Number 219077

Section 1. Identification

Product identifier : PathDetect NF-kB cis Reporting System, Part Number 219077
Part no. (chemical kit) : 219077
Part no. : pNF-kB-Luc Plasmid 219078-51
                pFC-MEKK Plasmid (Positive Control) 219058-51

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

Material uses : Analytical reagent.
                pNF-kB-Luc Plasmid 0.05 ml (50 µg  1 µg/µl)
                pFC-MEKK Plasmid (Positive Control) 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.

GHS label elements

Signal word : pNF-kB-Luc Plasmid
              pFC-MEKK Plasmid
              No signal word.
              (Positive Control)

Hazard statements : pNF-kB-Luc Plasmid
                    pFC-MEKK Plasmid
                    No known significant effects or critical hazards.
                    (Positive Control)

Precautionary statements

Prevention : pNF-kB-Luc Plasmid
             pFC-MEKK Plasmid
             Not applicable.
             (Positive Control)

Response : pNF-kB-Luc Plasmid
           pFC-MEKK Plasmid
           Not applicable.
           (Positive Control)

Storage : pNF-kB-Luc Plasmid
          pFC-MEKK Plasmid
          Not applicable.
          (Positive Control)

Disposal : pNF-kB-Luc Plasmid
          pFC-MEKK Plasmid
          Not applicable.
          (Positive Control)

Supplemental label elements

Additional warning phrases : pNF-kB-Luc Plasmid
                            pFC-MEKK Plasmid
                            Not applicable.
                            (Positive Control)

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Section 2. Hazard(s) identification

Other hazards which do not result in classification:
- pNF-kB-Luc Plasmid: None known.
- pFC-MEKK Plasmid (Positive Control): None known.

Section 3. Composition and ingredient information

Substance/mixture:
- pNF-kB-Luc Plasmid: Mixture
- pFC-MEKK Plasmid (Positive Control): 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 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:
- pNF-kB-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.
- pFC-MEKK Plasmid (Positive Control): 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:
- pNF-kB-Luc Plasmid: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- pFC-MEKK Plasmid (Positive Control): Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact:
- pNF-kB-Luc Plasmid: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- pFC-MEKK Plasmid (Positive Control): Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion:
- pNF-kB-Luc Plasmid: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
- pFC-MEKK Plasmid (Positive Control): Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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:
- pNF-kB-Luc Plasmid: No known significant effects or critical hazards.
- pFC-MEKK Plasmid (Positive Control): No known significant effects or critical hazards.

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Section 4. First aid measures

Inhalation:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - No known significant effects or critical hazards.

Skin contact:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - No known significant effects or critical hazards.

Ingestion:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - No known significant effects or critical hazards.

Over-exposure signs/symptoms:

Eye contact:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - No specific data.

Inhalation:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - No specific data.

Skin contact:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - No specific data.

Ingestion:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - No specific data.

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

Notes to physician:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - No specific treatment.

Protection of first-aiders:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - 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:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - None known.

Specific hazards arising from the chemical:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products:
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)
  - No specific data.
Section 5. Firefighting measures

Special protective actions for fire-fighters:
- pNF-kB-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.
- pFC-MEKK Plasmid (Positive Control)
  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:
- pNF-kB-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.
- pFC-MEKK Plasmid (Positive Control)
  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:
- pNF-kB-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.
- pFC-MEKK Plasmid (Positive Control)
  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:
- pNF-kB-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".
- pFC-MEKK Plasmid (Positive Control)
  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:
- pNF-kB-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).
- pFC-MEKK Plasmid (Positive Control)
  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:
- pNF-kB-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.
- pFC-MEKK 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 6. Accidental release measures

(Positive Control) 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
- **pNF-kB-Luc Plasmid**
  - Put on appropriate personal protective equipment (see Section 8).
- **pFC-MEKK Plasmid (Positive Control)**
  - Put on appropriate personal protective equipment (see Section 8).

#### Advice on general occupational hygiene
- **pNF-kB-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.
- **pFC-MEKK Plasmid (Positive Control)**
  - 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
- **pNF-kB-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.
- **pFC-MEKK Plasmid (Positive Control)**
  - 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.

#### 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

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

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.

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

Appearance

Physical state: pNF-kB-Luc Plasmid Liquid.
               pFC-MEKK Plasmid (Positive Control) Liquid.

Colour: pNF-kB-Luc Plasmid Not available.
       pFC-MEKK Plasmid (Positive Control) Not available.

Odour: pNF-kB-Luc Plasmid Not available.
       pFC-MEKK Plasmid (Positive Control) Not available.

Odour threshold: pNF-kB-Luc Plasmid Not available.
                 pFC-MEKK Plasmid (Positive Control) Not available.

pH: pNF-kB-Luc Plasmid 7.5
    pFC-MEKK Plasmid (Positive Control) 7.5

Melting point: pNF-kB-Luc Plasmid 0°C (32°F)
               pFC-MEKK Plasmid (Positive Control) 0°C (32°F)

Boiling point: pNF-kB-Luc Plasmid 100°C (212°F)
               pFC-MEKK Plasmid (Positive Control) 100°C (212°F)

Flash point: pNF-kB-Luc Plasmid Not available.
             pFC-MEKK Plasmid (Positive Control) Not available.
Section 9. Physical and chemical properties

Evaporation rate:
- pNF-kB-Luc Plasmid: Not available.
- pFC-MEKK Plasmid (Positive Control): Not available.

Flammability (solid, gas):
- pNF-kB-Luc Plasmid: Not applicable.
- pFC-MEKK Plasmid (Positive Control): Not applicable.

Lower and upper explosive (flammable) limits:
- pNF-kB-Luc Plasmid: Not available.
- pFC-MEKK Plasmid (Positive Control): Not available.

Vapour pressure:
- pNF-kB-Luc Plasmid: Not available.
- pFC-MEKK Plasmid (Positive Control): Not available.

Vapour density:
- pNF-kB-Luc Plasmid: Not available.
- pFC-MEKK Plasmid (Positive Control): Not available.

Relative density:
- pNF-kB-Luc Plasmid: Not available.
- pFC-MEKK Plasmid (Positive Control): Not available.

Solubility:
- pNF-kB-Luc Plasmid: Easily soluble in the following materials: cold water and hot water.
- pFC-MEKK Plasmid (Positive Control): Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water:
- pNF-kB-Luc Plasmid: Not available.
- pFC-MEKK Plasmid (Positive Control): Not available.

Auto-ignition temperature:
- pNF-kB-Luc Plasmid: Not available.
- pFC-MEKK Plasmid (Positive Control): Not available.

Decomposition temperature:
- pNF-kB-Luc Plasmid: Not available.
- pFC-MEKK Plasmid (Positive Control): Not available.

Viscosity:
- pNF-kB-Luc Plasmid: Not available.
- pFC-MEKK Plasmid (Positive Control): Not available.

Section 10. Stability and reactivity

Reactivity:
- pNF-kB-Luc Plasmid: No specific test data related to reactivity available for this product or its ingredients.
- pFC-MEKK Plasmid (Positive Control): No specific test data related to reactivity available for this product or its ingredients.

Chemical stability:
- pNF-kB-Luc Plasmid: The product is stable.
- pFC-MEKK Plasmid (Positive Control): The product is stable.

Possibility of hazardous reactions:
- pNF-kB-Luc Plasmid: Under normal conditions of storage and use, hazardous reactions will not occur.
- pFC-MEKK Plasmid (Positive Control): Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:
- pNF-kB-Luc Plasmid: No specific data.
- pFC-MEKK Plasmid (Positive Control): No specific data.

Incompatible materials:
- pNF-kB-Luc Plasmid: May react or be incompatible with oxidising materials.
- pFC-MEKK Plasmid (Positive Control): May react or be incompatible with oxidising materials.
Section 10. Stability and reactivity

**Hazardous decomposition products**
- pNF-kB-Luc Plasmid
- pFC-MEKK Plasmid (Positive Control)

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**

- **pNF-kB-Luc Plasmid**
- **pFC-MEKK Plasmid (Positive Control)**

Not available.

**Potential acute health effects**

**Eye contact**
- **pNF-kB-Luc Plasmid**
- **pFC-MEKK Plasmid (Positive Control)**

No known significant effects or critical hazards.

**Inhalation**
- **pNF-kB-Luc Plasmid**
- **pFC-MEKK Plasmid (Positive Control)**

No known significant effects or critical hazards.

**Skin contact**
- **pNF-kB-Luc Plasmid**
- **pFC-MEKK Plasmid (Positive Control)**

No known significant effects or critical hazards.

**Ingestion**
- **pNF-kB-Luc Plasmid**
- **pFC-MEKK Plasmid (Positive Control)**

No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact**
- **pNF-kB-Luc Plasmid**
- **pFC-MEKK Plasmid (Positive Control)**

No specific data.

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Section 11. Toxicological information

Inhalation:
- pNF-kB-Luc Plasmid: No specific data.
- pFC-MEKK Plasmid (Positive Control): No specific data.

Skin contact:
- pNF-kB-Luc Plasmid: No specific data.
- pFC-MEKK Plasmid (Positive Control): No specific data.

Ingestion:
- pNF-kB-Luc Plasmid: No specific data.
- pFC-MEKK Plasmid (Positive Control): 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:
- pNF-kB-Luc Plasmid: No known significant effects or critical hazards.
- pFC-MEKK Plasmid (Positive Control): No known significant effects or critical hazards.

Carcinogenicity:
- pNF-kB-Luc Plasmid: No known significant effects or critical hazards.
- pFC-MEKK Plasmid (Positive Control): No known significant effects or critical hazards.

Mutagenicity:
- pNF-kB-Luc Plasmid: No known significant effects or critical hazards.
- pFC-MEKK Plasmid (Positive Control): No known significant effects or critical hazards.

Teratogenicity:
- pNF-kB-Luc Plasmid: No known significant effects or critical hazards.
- pFC-MEKK Plasmid (Positive Control): No known significant effects or critical hazards.

Developmental effects:
- pNF-kB-Luc Plasmid: No known significant effects or critical hazards.
- pFC-MEKK Plasmid (Positive Control): No known significant effects or critical hazards.

Fertility effects:
- pNF-kB-Luc Plasmid: No known significant effects or critical hazards.
- pFC-MEKK Plasmid (Positive Control): 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

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Section 12. Ecological information

Not available.

Mobility in soil

Soil/water partition coefficient (Koc) : 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 Annex II of Marpol and the IBC Code : Not available.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine 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 (Annexes A, B, C, E)
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.

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Section 15. Regulatory information

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Section 16. Any other relevant information

History

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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
- N/A = Not available
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

Procedure used to derive the classification

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<th>Justification</th>
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References

- Not available.

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