



MATERIAL SAFETY DATA SHEET

To be confidential: N/A

Rev. No. : 5-2

Page No. : 1

Title: Rapid Dirofiliaria immitis(Heartworm) Ag Test Kit

Valid date of : Sept.23, 2005

I. General Information

Product Name & Synonyms: Anigen Rapid Dirofiliaria immitis(CHW) Ag Test Kit	Trade Name & Catalogue Number: RG11-02
Chemical Family: In-Vitro diagnostics	Formula: Not applicable
Proper DOT Shipping Name(USA): Not applicable	DOT Hazard Classification(USA): Not applicable
Manufacturer : Animal Genetics, Inc. Manufacturer's Address : 404-5, Woncheon-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea 443-823	Telephone No. : +82 31 211 0516 Poison Control Center : +82 31 211 0517

II. Ingredients

Principle Components: Concentration

* The CAS Registry number is a unique number assigned to a chemical by the Chemical Abstracts Service.

* OSHA is the (USA) Occupational Safety and Health Administration, which adopts and enforces health and safety standards

* The ACGIH is the American Conference of Governmental Industrial Hygienists. One of its principal tasks is to recommend TLVs for workplace exposure to chemicals.

	CAS No -	Concentration	OSHA PEL	ACCGIH-TLV
1. Test strip membrane				
a. Gold conjugate - Rabbit polyclonal canine heartworm Ab – gold colloid	N/A	8.3 ±1.6 µl	N/A	N/A
b. Test line - Mouse monoclonal canine heartworm Ab	N/A	0.75 ±0.15 µg	N/A	N/A
c. Control line- Goat anti- rabbit IgG	N/A	0.75±0.15 µg	N/A	N/A
2. Assay diluent :				
a. 50 mM Tris-HCl Buffer (MF: C ₄ H ₁₁ NO ₃ .HCL, EC No: 214-684-5)	1185-53-1	50 mM	N/A	N/A
b. Sodium azide(NaN ₃)	26628-22-8	0.02%.	0.3 mg/m ³	0.1 mg/m ³
c. Triton X-100 [C ₈ H ₁₇ C ₆ H ₄ (OCH ₂ CH ₂) _n OH] (Polyethylene Glycol Mono-4-Octylphenyl Ether)	9002-93-1	0.1%	N/A	N/A

III. Physical Data

Boiling Point (°F): Aqueous mixtures- 100°C Vapor Pressure (mm Hg): Not applicable Vapor Density (Air = 1.0): Not applicable Solubility in Water: Aqueous mixtures- soluble Appearance: Test strip membrane : in white plastic cassette Assay diluent- Clear, liquid	Specific Gravity (Water = 1.0): Not applicable Percent Volatile by Volume (%): Not applicable Evaporation Rate: Not applicable pH: Assay diluent – 8.5 Odor: Odorless
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IV. Fire and Explosion Data

Flash Point : Not applicable

Auto Ignition Temperature (°F): Not applicable

Flammable Limits: Not applicable

LEL: Not applicable

UEL: Not applicable

Extinguishing Media:

Suitable extinguishing agents including CO₂, WATER
SPRAY or Regular foam.

Unusual Fire and Explosive Hazards:

0.1% of Sodium Azide can not form explosive complexes
with copper and lead, strong acids

Special Fire-Fighting Procedures: NONE

V. Health Hazard Data

* NTP is the (US) National Toxicology Program, which tests chemicals, and reviews evidence relating to the possibility that a chemical may act as a carcinogen.

* IARC -International Agency for Research in Cancer

The contents contained in this package may irritate the eyes, skin, and respiratory tract. May be harmful if swallowed. May be toxic if ingested. Splashes from solutions may produce severe eye and skin irritation. May cause irreversible eye damage. May cause burns upon contact (corrosive). May cause effects on the kidneys, central nervous system, and/or cardiovascular system. Effects may be delayed. Medical observation recommended upon exposure.

- 0.02% Sodium azide : Irritant to eyes, skin; blisters; headache; dizziness; blurred vision; low blood pressure. Highly toxic.

- Carcinogenicity : NTP- NO, IARC Monographs- None, OSHA Regulated- NO

- Medical Conditions : Generally Aggravated by Exposure: Eye / Skin hypersensitivity

VI. First Aid Measures

- Skin Contact: Remove from source of exposure. Wash affected area with soap and water. If irritation or signs of toxicity occur, seek medical attention.

- Eye Contact: Remove from source of exposure. Wash with copious amounts of water for at least 15 minutes. If irritation or signs of toxicity occur, seek medical attention.

- Ingestion: If irritation or signs of toxicity occur, seek medical attention.

*The following symptoms may occur: Irreversible eye damage.

*Medical conditions aggravated by exposure: Pre-existing eye ailments. Hypersensitivity.

*This material should be considered as being potentially infectious.

VII. Reactivity Data

Stability: Stable

Storage conditions : 2 – 30 °C

Incompatibility: None identified when used appropriately

Materials to avoid: None known

Hazardous Polymerization: will not occur

VIII. Environmental Protection Procedures

Spill Response Procedures: Wear appropriate personal protective equipment, including but not limited to, protective eyewear, clothing, and gloves. Absorb into toweling or other absorbent material. Place in red bio-hazardous material bag and dispose of in accordance with approved institutional procedures for bio-hazardous material.

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Waste Disposal Procedure: Dispose of in accordance with all Federal, State and local regulations for handling of bio-hazardous waste

IX. Handling and Special Protection Information

Eye Protection: Wear safety glasses or full face shield.

Respiratory Protection: None required.

Other Protection: Regard as potentially infectious and follow

Skin Protection: Wear protective clothing and gloves.

Ventilation: Normal ventilation recommended.

In-Vitro diagnostics use only

X. Regulations : EUROPEAN INFORMATION

Risk phrase

R36-Irritating to eyes.

R38-Irritating to skin.

Safety Phrase

S24- Avoid contact with skin.

S25- Avoid contact with eyes.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28- After contact with skin, wash immediately with plenty of soap

S47- Keep at temperature not exceeding 2 – 30 °C

S56- Dispose of this material and its container at hazardous or special waste collection point.

XI. Special Precautions

Hygienic Practices In Handling And Storage: This product should be handled using the same precautions

Employed When Handling Any Potentially Infectious Material.

Precautions For Repair and Maintenance of contaminated equipment: Follow good laboratory practices for decontamination such as the use of a 10% bleach solution or autoclave

Other Protection: None specified

XII. Information for Transportation

This material is non-flammable and non-explosive.

It is allowed and safe to transport by Air flight, Vehicle, Ocean ship

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Animal Genetics, Inc. shall not be held liable for any damage resulting from handling or use.