



Ningbo Customs Technical Center REPORT FOR ANALYSTS

Report number: 202000005459

Name of Sample: BeriClear® Spatial Disinfectant

BeriClear® is the branded name for *Path-Away Anti-Pathogenic Aerosol Solution® Manufactured in the USA by GICC LLC.*

Applicant: Tianjin Pioneer Science&Technology Development, Inc.

Test Type: Third-Party Testing

2020.07.29

Ningbo Customs Technical Center

Notice Items

1. The Ningbo Customs Technical Center assure entrusted sample testing results of fairness, accuracy, to entrust responsible for customer, and promised to customers' physical and technical data to perform confidential duties.
2. The test report is invalid without signature of approver and Special Seal for Inspection Report .
3. The Test report is invalid if being supplemented, deleted or altered.
4. Any dispute of the report must be raised to the testing body within 15 days after the report is received. exceeding which the dispute will not be accepted.
5. For the tested sample(s) submitted by the applicant, the sample information in the test report is provided by the applicant and the laboratory is not responsible for its authenticity.
6. The test report must not be used on its goods, packaging, or in its advertising, exhibitions or other commercial activities.
7. This test report shall be made in quadruplicate, three copies shall be submitted to the applicant, and one copy shall be archived by our center.

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Ningbo Customs Technical Center
REPORT FOR ANALYSTS

Acceptance number: 2000073028 Report number: 202000005459

Name of Sample	BeriClear® Spatial Disinfectant	Brand	BeriClear
Applicant:	Tianjin Pioneer Science&Technology Development, Inc.	Sample Quantity and Specification	2 bottles (1 liter per bottle)
Manufacturer	Tianjin Aike Technology Development Co. LTD	State and Characteristic	Transparent pale yellow liquid
Production date	2020.03.06	Sample Received Date	2020-05-26
Test Type	Third-Party Testing	Completion Date	2020-07-27

Test Standard and Method: Technical specification for disinfection (2002 edition)

Test Conclusion: Acute Inhalation Toxicity Test indicated that BeriClear® Spatial Disinfectant belongs to actually non-toxic grade. (BeriClear is a brand name for Path-Away Anti-Pathogenic Aerosol Solution)

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Materials and animals

1. Test sample:

1.1 Name of Sample: BeriClear® Spatial Disinfectant

1.2 Sample Preparation: Weigh 17.6g of the test sample into the static poisoning sample volatilization device to volatilize. After the experiment, the sample is taken out and weighed again to obtain 13.2g.

2. Animals and feeding surroundings

Animal source	Laboratory Animal Center of Zhejiang Academy of Medical Sciences	Strain	ICR(Institute of Cancer Research)
Species	Mouse	Amount	20
Grade	SPF(Specific Pathogen Free)	Gender	half male and female
Laboratory Animal Production Permit No	SCXK (浙) 2019-0002	Laboratory Animal Use Permit No	SYXK (浙) 2018-0003
Feeding Surroundings			
Temperature	21.4℃~23.1℃	Relative humidity	50.2%~57.3%
Lighting control	12 hours of light and 12 hours of darkness and cycle	Air change rate	8-10 times per hour
Fodder source	Jiangsu Synergy Medical Bioengineering Co., Ltd. Production license number 2019(01008)	Water	Automatic water bowl

Method:

1. Exposure Routes: Static inhalation

2. Toxic Dose

$$C=(a-d)/V$$

In equation : C--toxic concentration(mg/m³)

a--amount of test sample added (mg)

d--amount of test sample after volatilization (mg)

V--poisoned cabinet volume(m³)

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3. Dosage and grouping

Dose group: 14.7 mg/L

4. Poisoned cabinet volume: 0.3 m³

5. Experimental process: During the test, the 20 animals which is half male and female were weighed and labeled. Put the experimental animals into the poisoning cabinet. Add a quantitative test sample and volatilize it so that the concentration meet the requirements of the test. The experimental animals inhaled the poison for 2 hours at a time. The poisoning process and death rate of animals were observed and recorded. The observation period is generally 14 days. At the end of the observation, the surviving animals were sacrificed and gross dissection was performed.

Test results:

LC₅₀ > 14.7mg/L. No poisoning symptoms and death were found in the experimental animals within 14 days. There was no abnormal body weight in male and female animals. At the end of the observation, no abnormal changes were observed in the gross dissection of the experimental animals.

Test results of Acute Inhalation Toxicity Test

Sex	Number of animals	Weight (X ± SD)(g)				death count	death rate(%)
		0 days	7 days	14 days	14 days weight gain		
Male	10	20.1±0.90	24.5±0.96	29.1±0.93	9.1±0.59	0	0
Female	10	19.7±1.11	23.2±1.08	27.1±1.35	7.4±0.53	0	0

Conclusion:

The median lethal concentration(LC₅₀) of the sample > 10 mg/L. According to the acute toxicity classification, BeriClear ® Spatial Disinfectant belongs to the actual non-toxic grade. (BeriClear is a brand name for Path-Away Anti-Pathogenic Aerosol Solution)

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