

Ningbo Entry-Exit Inspection & Quarantine Bureau Technical Center of People's  
Republic of China

Testing Report

Testing Report Number: 201900006893MM

Sample Name: BeriClear™ Skin Disinfectant Spray

Sample Submitted by: Tianjin Pioneer Science&Technology Development, Inc.

Testing Type: Third Party Testing

July 15, 2019

Ningbo Entry-Exit Inspection & Quarantine Bureau Technical Center of People's Republic of China

**NOTE:** BeriClear is the brand name assigned to China for "Path-Away Anti-Pathogenic Aerosol Solution®."

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Sample Name:	BeriClear™ Skin Disinfectant Spray	Trade Mark	BeriClear™ (柏瑞清™)
Sample Submitted by:	Tianjin Pioneer Science&Technology Development, Inc.	Sample Quantity	100ml (30ml/bottle)
Manufacturing Company Name:	Tianjin Aike Science&Technology Development, Inc.	Sample Color	Light Brown Transparent Liquid
Sample made on or Batch number:	Dec. 6, 2018	Sample Received on	Dec. 14, 2018
Testing Type:	Third Party Testing	Testing Finished on	Jan. 15, 2019

Testing Method: Standard Technical Testing Protocol for Disinfectants (2002 Edition)

Toxicology Testing Conclusion:

Multiple vaginal mucous membrane sensitivity test results is: ***Nonirritant to vaginal mucous membrane.***

Comments: This report is to replace the report issued on July 2, 2019 report number 201800006893M. The old report is no longer valid. Sample name was changed from Skin Disinfectant to BeriClear™ Skin Disinfectant Spray.

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Authorized by \_\_\_\_\_

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## One. Materials and Animals

## 1. Sample:

1.1 Sample description: BeriClear™ Skin Disinfectant Spray

1.2 Sample preparation: Original sample

## 2. Animal and Living Conditions:

Source	Tongxiang City Yin Hai Animal Farm	Animal Strain	New Zealand Rabbit		
Species	Rabbit	Quantity	3		
Class	Regular	Testing Animal Marks	1	2	3
Animal Sex	Female	Reference Animal Marks	4	5	6
Testing Animal Farm Certificate Number	SCXK(Zhe)2018-0002	Testing Animal Farm Certificate Number	SCXK(Zhe)2018-0003		
Animal Living Conditions					
Room Temp. Range	23.0°C – 25.2°C	Relative Humidity	51.8% - 63.5%		
Lighting Control	12 hrs dim/bright cycle	Aeration	8 – 10 times/hr		
Animal Feed Source	Tongxiang City Yin Hai Animal Farm	Drinking Water	Freely		

## Two. Method:

1. Testing Method: Standard Technical Testing Protocol for Disinfectants (2002 Edition) 2.3.5
2. Testing Animal Quantity and Groups: Two groups, testing group and reference group. Three animals in each group.
3. Testing Operation Procedure:
  - (3.1). Fix the rabbit face up and fix on the bench, expose vagina area and vagina. Wet a tube (8 cm in length, children's catheter type, connected with a 5ml syringe) first then gently insert it into vagina (4cm), slowly inject 2 ml with the syringe, take the tube out. Repeat the above process every 24 hours for 5 days. The reference group repeat the process with saline water.
  - (3.2). 24 hours after inject the testing liquid, kill the animal with gas bolt method, take out

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complete vagina, cut it open vertically, observe with naked eyes, whether it shows redness, swollen, etc. Then use 10% formaldehyde for 48 hours, take out three parts, the two ends and the middle, of the vagina, HE coloration, conduct histopathology examination.

4. Result Evaluation Method

(4.1). Give grades to histopathology examination.

(4.2). Add to get the testing group's three animal's three sections sensitivity response total score, then divide by total observation (animal number X 3), this gives the average score of the total score; Reference group is processed in the same way.

(4.3). Obtain sensitivity index by subtracting the reference group score from the testing group score; Then classify according to the sensitivity index.

Three. Testing Results

Vagina Mucous Membrane Sensitivity Response Scores Summary

Group Type	Animal Serial Number	Sensitivity Response Scores				Total
		Epithelial	Leukocyte Infiltration	Congestion of Blood Vessel	Swollen	
Testing Group	1	0	0	1	0	1
	2	0	0	1	0	1
	3	0	0	2	0	2
	Average Score <sup>1)</sup>	———				0.44
Reference Group	4	0	0	0	0	0
	5	0	0	0	0	0
	6	0	0	0	0	0
	Average Score	———				0
Sensitivity Index <sup>2)</sup>		0.44				

Legends: 1) Average score = 3 animals 3 locations, sensitivity score addition/total observation numbers (animal number X 3); 2) Sensitivity Index = Testing group average score – Reference group average score.

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Four. Conclusion

This sample's sensitivity index for rabbit vagina is 0.44, and vagina mucous membrane sensitivity response intensity is: no vagina mucous membrane sensitivity.

NOTE:

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Authorized by Arthur V. Martin Ph.D.

July 15, 2019