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**Liaoning Qianyi Testing and Evaluation  
Technology Development Co., Ltd.  
Test Report**

**Report No.:** J2019A07440

**Sample name:** IBREA MICRO SILVER HAND GEL  
WITH PURE SILVER (ALCOHOL 38%)

**Customer:** Shanghai Naturie Co.,Ltd.

**July 14, 2020**



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## Liaoning Qianyi Testing and Evaluation

## Technology Development Co., Ltd.

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Sample name:	IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%)	Sample quantity:	4 bottles
Customer:	Shanghai Naturie Co.,Ltd.	Appearance:	Gray gel, bottle
Producer:	Mi-Face Co.,Ltd.	Sample size:	50mL/ bottle
Lot No.:	20F001	Received date:	July 01, 2020
Inspection category	Entrusted inspection	Test completion date:	July 14, 2020
Items:	Identification test of neutralizer (staphylococcus aureus , candida albicans); Bactericidal test (escherichia coli, staphylococcus aureus, candida albicans)		

## A. Test standard

1. Identification test of neutralizer: " Technical standard for disinfection " (2002) 2.1.1.5.6;
2. Bactericidal test of escherichia coli and staphylococcus aureus : " Technical standard for disinfection " (2002) 2.1.1.7.5;
3. Bactericidal test of candida albicans : " Technical standard for disinfection " (2002) 2.1.1.9.5.

## B. Evaluation basis

1. Identification test of neutralizer: " Technical standard for disinfection " (2002) 2.1.1.5.7;
2. Bactericidal test of escherichia coli and staphylococcus aureus: " Technical standard for disinfection " (2002) 2.1.1.7.7.
3. Bactericidal test of candida albicans : " Technical standard for disinfection " (2002) 2.1.1.9.6.

## C. Test conclusion

1. Identification test of neutralizer of staphylococcus aureus (carrier method)

The test was repeated three times. The test temperature was  $20^{\circ}\text{C}\pm 1^{\circ}\text{C}$ . 3.9% D/E neutralization broth, can effectively neutralize the effect of residual bactericidal gel on the bacteria surface. And the neutralizing agent and its products had no obvious adverse effect on the experimental bacteria and medium. The results show that the neutralizer is suitable for the bactericidal test of escherichia coli and staphylococcus aureus.

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### 2. Identification test of neutralizer of candida albicans (carrier method)

The test was repeated three times. The test temperature was  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . 3.9% D/E neutralization broth, can effectively neutralize the effect of residual bactericidal gel on the bacteria surface. And the neutralizing agent and its products had no obvious adverse effect on the experimental bacteria and medium. The results show that the neutralizer is suitable for the bactericidal test of candida albicans.

### 3. Bactericidal test of escherichia coli (carrier method)

The test was repeated three times. The test temperature was  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . The results showed that IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%) were the carrier prototype. The action time was 0.5min、1min、1.5min. The average killing logarithm value of escherichia coli was  $\geq 3.00$ , which meets the requirements of "Technical standard for disinfection" (2002).

### 4. Bactericidal test of staphylococcus aureus (carrier method)

The test was repeated three times. The test temperature was  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . The results showed that IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%) were the carrier prototype. The action time were 0.5min、1min、1.5min. The average killing logarithm value of staphylococcus aureus was  $\geq 3.00$ , which meets the requirements of "Technical standard for disinfection" (2002).

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### 5. Bactericidal test of candida albicans (carrier method)

The test was repeated three times. The test temperature was  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . The results showed that IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%) were the carrier prototype. The action time were 0.5min、1min、1.5min. The average killing logarithm value of candida albicans was  $\geq 3.00$ , which meets the requirements of "Technical standard for disinfection" (2002).

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Sample name:	IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%)	Received date:	July 01, 2020
Items:	Identification test of neutralizer of staphylococcus aureus (carrier method )	Test completion date:	July 03, 2020

## A. Equipment

1.The sample name, batch No.: IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%), 20F001;

2.Test bacterial strain name, bacterial strain No., provide unit and culture generation: staphylococcus aureus, ATCC6538, Guangdong huankai microbiology technology Co., Ltd., the sixth generation;

3.Medium and others:

a. Peptone soy AGAR medium (TSA);b.Peptone soy Broth medium (TSB);c.0.03mol/L pH7.2 Shari agar medium, phosphate buffer (PBS); d. Diluent: normal saline solution containing 0.1% tryptone;e. Composition and concentration of neutralizer: 3.9% D/E neutralization broth;f. Plain white cotton cloth.

4.Instrument name/model/number: Constant thermostatic incubator/DH6000BII/L-516, onstant temperature water bathDK-98-IIA/L-515, vertical steam pressure sterilizer/LDZX-60KSB/L-484, electronic scales/SQP/L-326, microscope/BM2100/L-511, biosafety cabinet/BSC-1500IIA2-X/L-499.

## B. Methods

1. Test standard: " Technical standard for disinfection " (2002)2.1.1.5.6;

2.Identification test of neutralizer of staphylococcus aureus (carrier method ):

Bactericidal liquid concentration: The prototype of IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%);

Preparation of staphylococcus aureus suspension: Dilute with normal saline solution containing 0.1% peptone to the desired concentration.

3.The experiment was repeated three times. Test temperature  $20^{\circ}\text{C}\pm 1^{\circ}\text{C}$ .

## C. Results

Test temperature  $20^{\circ}\text{C}\pm 1^{\circ}\text{C}$ . The experiment was repeated three times. The action time was 0.5 min. The average number of growth bacteria in the first group is 4cfu/mL. The average number of growth bacteria in the second group is 13 cfu/mL. The average number of growth bacteria in the third group is  $3.38\times 10^6$ cfu/mL. The average number of growth bacteria in the fourth group is  $3.52\times 10^6$ cfu/mL. The average number of growth bacteria in the fifth group is  $3.00\times 10^6$ cfu/mL. The group 6 sterile growth. The error rate between groups 3, 4 and 5 is <15%

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## Results of neutralizer identification test

Group	Number of growing bacteria per test (cfu/mL)			The average (cfu/mL)
	1	2	3	
1	6	5	2	4
2	13	10	17	13
3	$3.45 \times 10^6$	$3.30 \times 10^6$	$3.40 \times 10^6$	$3.38 \times 10^6$
4	$3.75 \times 10^6$	$2.95 \times 10^6$	$3.85 \times 10^6$	$3.52 \times 10^6$
5	$3.15 \times 10^6$	$2.75 \times 10^6$	$3.10 \times 10^6$	$3.00 \times 10^6$
6	0	0	0	0
3.4.5 group average error rate				
among the three groups (%)				
	5.80	6.67	7.73	—

Remarks: The negative control group all grew aseptically

## D. Conclusion

The test was repeated three times. The test temperature was  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . The results show that 3.9% D/E neutralization broth, can effectively neutralize the effect of residual bactericidal gel on the bacteria surface. And the neutralizing agent and its products had no obvious adverse effect on the experimental bacteria and medium. The results show that the neutralizer is suitable for the prototype of the IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%) bactericidal test of escherichia coli and staphylococcus aureus.

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Sample name:	IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%)	Received date:	July 01, 2020
Items:	Identification test of neutralizer of candida albicans (carrier method)	Test completion date:	July 03, 2020

## A. Equipment

1. The sample name, batch No.: IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%), 20F001;

2. Test bacterial strain name, bacterial strain No., provide unit and culture generation: candida albicans, ATCC10231, Guangdong huankai microbiology technology Co., Ltd., the sixth generation;

3. Medium and others:

a. Shari agar medium; b. Liquid Shari medium; c. 0.03mol/L pH7.2 Shari agar medium, phosphate buffer (PBS); d. Diluent: normal saline solution containing 0.1% tryptone (TPS); e. Composition and concentration of neutralizer: 3.9% D/E neutralization broth; f. Plain white cotton cloth.

4. Instrument name/model/number: Constant thermostatic incubator/DH6000BII/L-516, onstant temperature water bath DK-98-IIA/L-515, vertical steam pressure sterilizer/LDZX-60KSB/L-484, electronic scales/SQP/L-326, microscope/BM2100/L-511, biosafety cabinet/BSC-1500IIA2-X/L-499.

## B. Methods

1. Test standard: "Technical standard for disinfection" (2002) 2.1.1.5.6;

2. Identification test of neutralizer of candida albicans (carrier method):

Bactericidal liquid concentration: The prototype of IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%);

Preparation of candida albicans suspension: Dilute with normal saline solution containing 0.1% peptone to the desired concentration.

2. The experiment was repeated three times. Test temperature  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ .

## C. Results

Test temperature  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . The experiment was repeated three times. The action time were 0.5 min. The average number of growth bacteria in the first group is 5cfu/mL. The average number of growth bacteria in the second group is 12cfu/mL. The average number of growth bacteria in the third group is  $3.52 \times 10^6$ cfu/mL. The average number of growth bacteria in the fourth group is  $3.35 \times 10^6$ cfu/mL. The average number of growth bacteria in the fifth group is  $3.17 \times 10^6$ cfu/mL. The group 6 sterile growth. The error rate between groups 3, 4 and 5 is  $<15\%$

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## Results of neutralizer identification test

Group	Number of growing bacteria per test (cfu/mL)			The average (cfu/mL)
	1	2	3	
1	6	5	3	5
2	12	15	10	12
3	$3.15 \times 10^6$	$3.65 \times 10^6$	$3.75 \times 10^6$	$3.52 \times 10^6$
4	$3.35 \times 10^6$	$3.15 \times 10^6$	$3.55 \times 10^6$	$3.35 \times 10^6$
5	$3.65 \times 10^6$	$2.85 \times 10^6$	$3.00 \times 10^6$	$3.17 \times 10^6$
6	0	0	0	0
3.4.5 group average error rate				
among the three groups (%)				
	5.25	8.98	8.41	—

Remarks: The negative control group all grew aseptically

## D. Conclusion

The test was repeated three times. The test temperature was  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ . The results show that 3.9% D/E neutralization broth, can effectively neutralize the effect of residual bactericidal gel on the bacteria surface. And the neutralizing agent and its products had no obvious adverse effect on the experimental bacteria and medium. The results show that the neutralizer is suitable for the prototype of the IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%) bactericidal test of candida albicans.

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Sample name: IBREA MICRO SILVER HAND GEL WITH  
PURE SILVER (ALCOHOL 38%)

Received date: July 01, 2020

Items: Bactericidal test of escherichia coli  
(Carrier method )

Test completion date: July 05, 2020

### A. Equipment

1.The sample name, batch No.: IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%), 20F001;

2.Test bacterial strain name, bacterial strain No., provide unit and culture generation: Escherichia coli, 8099, Guangdong huankai microbiology technology Co., Ltd., the sixth generation;

3.Medium and others: Nutrient agar medium, phosphate buffer(0.03mol/L pH7.2); Composition and concentration of neutralizer: 3.9% D/E neutralization broth; Plain white cotton cloth.

4.Instrument name/model/number: Constant thermostatic incubator/DH6000BII/L-516, onstant temperature water bathDK-98-IIA/L-515, vertical steam pressure sterilizer/LDZX-60KSB/L-484, microscope/BM2100/L-511, electronic scales/SQP/L-326, biosafety cabinet/BSC-1500HA2-X/L-499.

### B. Methods

1. Test standard: “ Technical standard for disinfection ” (2002) 2.1.1.7.5;

2. Bactericidal test of escherichia coli (Carrier method ):

a. Bactericidal liquid concentration: The prototype of IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%);

b. Preparation of escherichia coli suspension: Dilute with normal saline solution containing 0.1% peptone to the desired concentration.

c. The experiment was repeated three times. Test temperature  $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ .

### C. Results

The experiment was repeated three times. The results showed that IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%) were the carrier prototype. The action time were 0.5min、1min、1.5min. The average killing logarithm value of e. coli was  $\geq 3.00$ .

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## The bactericidal test of escherichia coli

Concentration of active ingredients in disinfectant (%)	Test serial number	Mean killing pair value of different time (min)			The average number of colonies in the positive control group was paired
		0.5	1	1.5	
Stock solution	1	$\geq 3.00$	$\geq 3.00$	$\geq 3.00$	6.32
	2	$\geq 3.00$	$\geq 3.00$	$\geq 3.00$	6.50
	3	$\geq 3.00$	$\geq 3.00$	$\geq 3.00$	6.34
	Average value	$\geq 3.00$	$\geq 3.00$	$\geq 3.00$	6.39

Remarks: The negative control group all grew aseptically

## D. Conclusion

The test was repeated three times. The results showed that IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%) were the carrier prototype. The action time were 0.5min、1min、1.5min. The average killing logarithm value of escherichia coli was  $\geq 3.00$ , which meets the requirements of "Technical standard for disinfection" (2002)2.1.1.7.7.

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Sample name:	IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%)	Received date:	July 01, 2020
Items:	Bactericidal test of staphylococcus aureus (Carrier method )	Test completion date:	July 05, 2020

## A. Equipment

1.The sample name, batch No.: IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%), 20F001;

2.Test bacterial strain name, bacterial strain No., provide unit and culture generation: staphylococcus aureu, ATCC6538, Guangdong huankai microbiology technology Co., Ltd, the sixth generation;

3.Medium and others: Nutrient agar medium, phosphate buffer(0.03mol/L pH7.2); Composition and concentration of neutralizer: 3.9% D/E neutralization broth;Plain white cotton cloth.

4.Instrument name/model/number: Constant thermostatic incubator/DH6000BII/L-516, onstant temperature water bathDK-98-IIA/L-515, vertical steam pressure sterilizer/LDZX-60KSB/L-484, microscope/BM2100/L-511, electronic scales/SQP/L-326, biosafety cabinet/BSC-1500IIA2-X/L-499.

## B. Methods

1. Test standard: “ Technical standard for disinfection ” (2002) 2.1.1.7.5;

2. Bactericidal test of staphylococcus aureus(Carrier method ):

a. Bactericidal liquid concentration: The prototype of IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%);

b. Preparation of staphylococcus aureus suspension: Dilute with normal saline solution containing 0.1% peptone to the desired concentration.

c. The experiment was repeated three times. Test temperature  $20^{\circ}\text{C}\pm 1^{\circ}\text{C}$ .

## C. Results

The experiment was repeated three times. The results showed that IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%) were the carrier prototype. The action time were 0.5min、1min、1.5min. The average killing logarithm value of staphylococcus aureus  $\geq 3.00$ .

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The bactericidal test of staphylococcus aureus

Concentration of active ingredients in disinfectant (%)	Test serial number	Mean killing pair value of different time (min)			The average number of colonies in the positive control group was paired
		0.5	1	1.5	
Stock solution	1	$\geq 3.00$	$\geq 3.00$	$\geq 3.00$	6.30
	2	$\geq 3.00$	$\geq 3.00$	$\geq 3.00$	6.36
	3	$\geq 3.00$	$\geq 3.00$	$\geq 3.00$	6.35
	Average value	$\geq 3.00$	$\geq 3.00$	$\geq 3.00$	6.34

Remarks: The negative control group all grew aseptically

### D. Conclusion

The test was repeated three times. The results showed that IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%) were the carrier prototype. The action time were 0.5min、1min、1.5min. The average killing logarithm value of staphylococcus aureus was  $\geq 3.00$ , which meets the requirements of "Technical standard for disinfection" (2002)2.1.1.7.7.

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Sample name:	IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%)	Received date:	July 01, 2020
Items:	Bactericidal test of candida albicans (Carrier method )	Test completion date:	July 05, 2020

### A. Equipment

- 1.The sample name, batch No.: IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%), 20F001;
- 2.Test bacterial strain name, bacterial strain No., provide unit and culture generation: candida albicans, ATCC10231, Guangdong huankai microbiology technology Co., Ltd, the sixth generation;
- 3.Medium and others: Nutrient agar medium, phosphate buffer(0.03mol/L pH7.2); Composition and concentration of neutralizer: 3.9% D/E neutralization broth; Plain white cotton cloth.
- 4.Instrument name/model/number: Constant thermostatic incubator/DH6000BII/L-516, onstant temperature water bath DK-98-IIA/L-515, vertical steam pressure sterilizer/LDZX-60KSB/L-484, microscope/BM2100/L-511, electronic scales/SQP/L-326, biosafety cabinet/BSC-1500IIA2-X/L-499.

### B. Methods

1. Test standard: "Technical standard for disinfection" (2002) 2.1.1.9.5;
2. Bactericidal test of candida albicans(Carrier method ):
  - a. Bactericidal liquid concentration: The prototype of IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%);
  - b. Preparation of candida albicans suspension: Dilute with normal saline solution containing 0.1% peptone to the desired concentration.
  - c. The experiment was repeated three times. Test temperature  $20^{\circ}\text{C}\pm 1^{\circ}\text{C}$ .

### C. Results

The experiment was repeated three times. The results showed that IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%) were the carrier prototype. The action time were 0.5min、1min、1.5min. The average killing logarithm value of candida albicans was  $\geq 3.00$ .

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The bactericidal test of candida albicans

Concentration of active ingredients in disinfectant (%)	Test serial number	Mean killing pair value of different time (min)			The average number of colonies in the positive control group was paired
		0.5	1	1.5	
Stock solution	1	≥3.00	≥3.00	≥3.00	6.50
	2	≥3.00	≥3.00	≥3.00	6.47
	3	≥3.00	≥3.00	≥3.00	6.37
	Average value	≥3.00	≥3.00	≥3.00	6.45

Remarks: The negative control group all grew aseptically

D. Conclusion

The test was repeated three times. The results showed that IBREA MICRO SILVER HAND GEL WITH PURE SILVER (ALCOHOL 38%) were the carrier prototype. The action time were 0.5min、1min、1.5min. The average killing logarithm value of candida albicans was ≥3.00, which meets the requirements of “ Technical standard for disinfection ” (2002).

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