intertek
Total Quality. Assured.

**Test Report** Number: GZHH00358761

Applicant: Orcagel Ltd, Blackhouse Circle, Blackhouse Industrial Estate, Peterhead, AB42 1BN Date: Apr 22, 2020

Sample Description:

One (1) style of submitted sample said to be :

| | | |
|---|---|---|
| Item Name | : | **Orcagel Hand Sanitiser Gel – 70% alcohol.** |
| Client's reference information | : | Handsafe Hand Sanitiser Gel – 70% Alcohol. |
| Item Quantity | : | 5pcs. |
| Date Sample Received | : | Apr 08, 2020 |

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

**********

Conclusion:

| Tested Sample | Standard | Result |
|---|---|---|
| Tested component(s) of submitted sample(s) | BS EN 1276:2019 Chemical disinfectants and antiseptics — Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas — Test method and requirements (phase 2, step 1) | Pass |

**********

Intertek GM Testing Service Zhuhai Co. Ltd.

Sarah Xu
Asst. Manager
Healthcare and Beauty Products



**Intertek GM Testing Service Zhuhai Co. Ltd.**
**珠海天祥粤澳质量技术服务有限公司**

6/F, R&D and Testing/B, Guangdong-Macau TCM Park commercial Service center, 2522 Huan Dao Bei Road, Hengqin New Area, Zhuhai, China
中国珠海市横琴新区环岛北路 2522 号粤澳合作中医药科技产业园研发检测大楼 6 楼

Tel:+86756 2167557
**www.intertek.com.cn**
**www.intertek.com**

**Test Report** Number: GZHH00358761

Tests Conducted

1 Quantitative suspension test for evaluation of bactericidal activity of chemical disinfectants and antiseptics

With reference to BS EN 1276:2019

| | |
|---|---|
| Dilution recommended for use: | No dilution |
| Product test concentration: | 80% v/v |
| Active ingredient in product: | Alcohol |
| Appearance: | Blue transparent gel with bubbles |
| Contact time: | 1 minute ±10s |
| Test temperature: | 20°C |
| Interfering substance: | 0.3g/L bovine albumin (clean condition) |
| Inhibition method: | Dilution-neutralization |
| Neutralizing solution: | D/E neutralizing broth |
| Incubation: | (37±1)° C, 48 hours |
| Agar medium: | Trypticase Soy Agar |
| Test culture: | Escherichia coli K12 (NCTC 10538)<br>Pseudomonas aeruginosa (ATCC 15442)<br>Staphylococcus aureus (ATCC 6538)<br>Enterococcus hirae (ATCC 10541) |

**********



**Intertek GM Testing Service Zhuhai Co. Ltd.**
**珠海天祥粤澳质量技术服务有限公司**

6/F, R&D and Testing/B, Guangdong-Macau TCM Park commercial Service center, 2522 Huan Dao Bei Road, Hengqin New Area, Zhuhai, China
中国珠海市横琴新区环岛北路 2522 号粤澳合作中医药科技产业园研发检测大楼 6 楼

Tel:+86756 2167557
**www.intertek.com.cn**
**www.intertek.com**

**Test Report** Number: GZHH00358761

Tests Conducted

Controls & validation:

| Test microorganism | Validation suspension (cfu/ml) Nv $Nv_0$=1/10Nv **Criteria: 300 ⩽ Nv ⩽ 1600** | Experimental conditions control (cfu/ml) A **Criteria: A ⩾0.5 $Nv_0$** | Neutralizer control (cfu/ml) B **Criteria: B ⩾0.5 $Nv_0$** | Method validation (cfu/ml) C **Criteria: C ⩾0.5 $Nv_0$** | Validity |
|---|---|---|---|---|---|
| Escherichia coli K12 (NCTC 10538) | 550 | 54 | 50 | 46 | Valid |
| Pseudomonas aeruginosa (ATCC 15442) | 1000 | 100 | 98 | 96 | Valid |
| Staphylococcus aureus (ATCC 6538) | 1500 | 170 | 150 | 140 | Valid |
| Enterococcus hirae (ATCC 10541) | 1300 | 130 | 140 | 130 | Valid |

**********



**Intertek GM Testing Service Zhuhai Co. Ltd.**
**珠海天祥粤澳质量技术服务有限公司**

6/F, R&D and Testing/B, Guangdong-Macau TCM Park commercial Service center, 2522 Huan Dao Bei Road, Hengqin New Area, Zhuhai, China
中国珠海市横琴新区环岛北路 2522 号粤澳合作中医药科技产业园研发检测大楼 6 楼

Tel:+86756 2167557
**www.intertek.com.cn**
**www.intertek.com**

**Test Report** Number: GZHH00358761

Tests Conducted

Result:

| Test microorganism | Initial suspension(N) (cfu/ml) $N_0$=1/10N **Criteria: $1.5x10^8 \leq N \leq 5.0x10^8$** | Final count (cfu/ml) Na | R($Log_{10}$ Reduction) =Log $N_0$-Log Na **Criteria: R ≥ 5.0** | %Reduction **Criteria: ≥99.999** | Assessment |
|---|---|---|---|---|---|
| Escherichia coli K12 (NCTC 10538) | $2.3 x10^8$ | <140 | >5.0 | >99.999 | Meet |
| Pseudomonas aeruginosa (ATCC 15442) | $3.5 x10^8$ | <140 | >5.0 | >99.999 | Meet |
| Staphylococcus aureus (ATCC 6538) | $4.4 x10^8$ | <140 | >5.0 | >99.999 | Meet |
| Enterococcus hirae (ATCC 10541) | $2.0 x10^8$ | <140 | >5.0 | >99.999 | Meet |

**Remark:**

N = Test suspension, Number of cells per ml in bacterial suspensions.

$N_0$ = ($N_0$=1/10N),Number of cells per ml in the test mixtures at the beginning of the contact time (time 0).

Na = Number of survivors per ml in the test mixtures at the end of the contact-time.

Nv = Validation suspension, Number of cells per ml in bacterial suspensions.

$Nv_0$ = ($Nv_0$ =1/10Nv), Number of cells per ml in the test mixtures at the beginning of the contact time (time 0).

A,B,C = Represent the different control test mixtures, A(experimental conditions control), B(Neutralizer control), C(Method validation)

**********



**Intertek GM Testing Service Zhuhai Co. Ltd.**
**珠海天祥粤澳质量技术服务有限公司**

6/F, R&D and Testing/B, Guangdong-Macau TCM Park commercial Service center, 2522 Huan Dao Bei Road, Hengqin New Area, Zhuhai, China
中国珠海市横琴新区环岛北路 2522 号粤澳合作中医药科技产业园研发检测大楼 6 楼

Tel:+86756 2167557
**www.intertek.com.cn**
**www.intertek.com**

**Test Report** Number: GZHH00358761

Tests Conducted

**Criteria:** According to BS EN 1276:2019, in order to satisfy the requirement of bactericidal efficacy of chemical disinfectants and antiseptics, the product shall demonstrate at least a 5 decimal logarithm (lg) reduction (3 lg for handwashes) of the specified test organisms under the obligatory sample contact time, test temperature, and the simulated clean conditions according to its practical applications when the product is tested at its intended use dilution.

Sample received condition: sample in closed original package.

Date sample received: Apr 08, 2020
Testing period: Apr 08, 2020 to Apr 21, 2020

**********

End of report





**Intertek GM Testing Service Zhuhai Co. Ltd.**
**珠海天祥粤澳质量技术服务有限公司**

6/F, R&D and Testing/B, Guangdong-Macau TCM Park commercial Service center, 2522 Huan Dao Bei Road, Hengqin New Area, Zhuhai, China
中国珠海市横琴新区环岛北路 2522 号粤澳合作中医药科技产业园研发检测大楼 6 楼

Tel:+86756 2167557
**www.intertek.com.cn**
**www.intertek.com**