

Guangdong Detection Center of Microbiology

Report For Analyses

Rep.No: 2020FM03476R02

Sample Name: YEARUP Disinfectant Tablet

Received Date:29-02-2020

Test Items : Simulated qualification Test of Disinfection

Completion Date:6-4-2020

Effectiveness on Disinfect Eating Utensils

1.Equipments :

1-Test Strains : Escherichia Coli (8099) ,Strains Belongs to 5th Generation , Source: Guangdong Province Microbial Culture Collection Center .

2-Test Sample (s) : Tablets of YEARUP/ Disinfectant Tablet

3-Graduation Straws (1.0ml,5.0ml,10.0ml) etc

4-Equipment : Chopsticks

2.Method :

1-Preparation of Bacterial Suspension : -Simulated Qualification Test on Eating Utensils was Conducted According to Heath Ministry <Disinfection Technical Standard >,< 2002 Edition> 2.1.2.1. Positive Set Bacteria Amount should Be in Average of 1.25×10^7 cfu/cm² ~ 5×10^6 cfu/cm² .

2- Test Method : -Simulated Qualification Test on Eating Utensils was Conducted According to Heath Ministry <Disinfection Technical Standard >,< 2002 Edition> 2.1.2.1, Used Sample Concentration of (120mg/L) For 10Min, Examine 30 Sample (Chopsticks).

3- Laboratory Environment : Temperature :22.5°, Humidity :58%

3.Results :

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Test Set	Number of Viable Colony (cfu/sample)	Value of Killed Bacteria
1	9.20×10^3	5.47

2	2.66×10^4	5.01
3	1.29×10^4	5.33
4	2.22×10^3	5.09
5	2.13×10^4	5.11
6	2.78×10^4	5.99
7	1.52×10^4	5.25
8	2.70×10^3	5.00
9	2.38×10^3	5.06
10	2.13×10^4	5.11
11	1.99×10^3	5.14
12	2.59×10^3	5.02
13	2.13×10^3	5.11
14	1.20×10^4	5.36
15	1.81×10^4	5.18
16	1.55×10^3	5.25
17	5.80×10^3	5.67
18	2.40×10^3	5.06
19	7.00×10^3	5.59
20	1.76×10^4	5.19
21	2.49×10^3	5.04
22	2.78×10^3	5.99
23	1.13×10^4	5.38
24	9.90×10^3	5.44
25	2.57×10^3	5.03
26	2.34×10^3	5.07
27	2.48×10^3	5.04
28	2.74×10^3	5.00
29	8.20×10^3	5.52
30	8.50×10^3	5.51

Note : Negative Set :There's No Viable Bacteria , Average of Viable Colony in Positive Set is 2.73×10^7 ($2.58 \times 10^7 \sim 3.00 \times 10^7$) cfu/sample .

4.Conclusion :

Samples in Concentration of 120mg/L For 10Min, average Number of Killed Escherichia Coli Bacteria > 3.00 , According to Regulations of Disinfection Technical Standard ,< 2002 Edition> 2.1.2.1.4 (Average number of Killed Bacteria ≥ 5.00) ,So The Concentration And Timing of Disinfectant is Qualified As Disinfectant Quantity .