

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:06-04-2020

Effectiveness on Disinfect Hard Surface

1.Equipments :

1-Samples : YEARUP/ Disinfectant Tablet

2-Neutralizer : 3% Tween 80% ,0.5% Sodium Thiosulfate ,0.5%L Histidine ,0.5%peptone,0.85%Sodium Chloride,1.43%Lechtin ,0.1%Half PBS Solution of Cysteine .

4-Disinfection Object : Working Desk

5-Timer and Graduation Straws (1.0ml,5.0ml,10.0ml) etc

2.Method :

Method Introduction) 1- Test was Conducted According to Heath Ministry <Disinfection Technical Standard >,< 2002 Edition> Part 2-2.1.2.10, Put a (5cm×5cm) board at the Surface of Work Desk ,Use Soaked Cotton Pad To Take Samples , Go There And Back 8Times ,After Taking Samples ,Cut The end of Taking Sample Pad And Put it Into 5ml in Dilution Tube ,As Positive Set

2-Using 40mg/L Samples , Spread Disinfectant nearby The Positive Set, wait 10 Min, Taking Samples as positive set Method , Cut The end of Taking Sample Pad And Put it Into 5ml in Neutralizer Tube ,As Test Sample.

3-After Test is Done, Inoculate the Neutralizer and Dilution With 1.0mlSubstrate ,As Positive Set .

4- Put positive Set, Negative Set And Disinfect Set 'Samples ,Every Sample Has 2 Inoculation Plate ,Every Plate is 1.0ml , Inoculate With Agar pour method , Put it in Box With Constant Temperature of37.0° For48H,Count Live and Killed Bacteria .

3.Result:

Under Experiment Conditions , Samples in Concentration of 40mg/L For 10Min, average of Killed Bacteria on Work Desk Natural Bacteria 5.33, Every Time When Repeating Experiment The Average of Killed Bacteria is **5.0** (View Table)

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Test Results As Follows :

Table2: Concentration of YEARUP/ Disinfectant Tablet (40mg/L) Disinfection simulation test of Natural Bacteria on Surface of Work Desk

No.	Number of Bacteria on Positive Set (cfu/sample)	Number of Bacteria on Test Set (cfu/sample)	Killed Bacteria Positive Set Logarithmic Value (cfu/sample)
1	6.3×10^2	20	5.50
2	1.3×10^3	1.1×10^2	5.08
3	4.1×10^2	10	5.61
4	4.7×10^2	25	5.27
5	7.0×10^2	23	5.49
6	5.7×10^2	38	5.18
7	1.3×10^3	23	5.77
8	5.1×10^2	25	5.31
9	1.7×10^2	30	5.74
10	5.1×10^2	30	5.23
11	1.9×10^3	70	5.43
12	1.6×10^3	45	5.55
13	6.0×10^2	40	5.17

14	6.6 ×10 ²	30	5.18
15	6.0 ×10 ²	40	5.34
16	4.9 ×10 ²	45	5.03
17	1.8 ×10 ³	50	5.56
18	2.3 ×10 ³	80	5.45
19	5.5 ×10 ²	35	5.19
20	5.8 ×10 ²	30	5.29
21	6.1 ×10 ²	35	5.24
22	5.3 ×10 ²	23	5.37
23	6.5 ×10 ²	43	5.19
24	4.5 × 10 ²	38	5.07
25	6.6 ×10 ²	20	5.52
26	2.0 ×10 ³	1.2 ×10 ²	5.21
27	6.5 ×10 ²	43	5.18
28	2.4 ×10 ³	1.2 ×10 ²	5.31
29	6.6 ×10 ²	55	5.08
30	6.1 ×10 ²	30	5.31

Average Value

9.4 ×10²

5.33

Negative Set :There's No Viable Bacteria.

4. Conclusion :

Under Experiment Conditions , Samples in Concentration of 40mg/L For 10Min, Repeated 3Times, Logarithmic average of Killed Bacteria on Work Disk Natural Bacteria 1.33 , According to Regulations of Disinfection Technical Standard ,< 2002 Edition> 2.1.2.10.4 (All Samples Killed Bacteria Average ≥**5.00**),So Its Qualified As Disinfectant .