



中国认可
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检测
TESTING
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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 Fabric

1.Equipments :

1-Test Strains : Escherichia Coli (8099) And Staphylococcus Aureus (ATCC 6538),Strains Belongs to 5th Generation , Source: Guangdong Province Microbial Culture Collection Center .

2-Test Sample (s): YEARUP Disinfectant Tablet

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

4-Disinfection Object : White Cotton Fabric(5cm × 5cm)

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 2-2.1.2.9,Bacterial Suspension Preparation :According to method of Rule No.2.1.1.2 ,Bacterial Amount Detection in : 1.25×10^7 cfu/ Sample ~ 1.25×10^8 cfu/ Sample (About 5×10^5 cfu/cm² ~ 5×10^6 cfu/cm²) .

2-Using Artificial Stained White Cloth(5cm× 5cm) 60Piece , Wait Until its Dry Naturally and Then Start Do Experiment .30Pieces as Positive Comparison Set the Other 30Pieces as Test set .

3-Positive Comparison set: Place it in non-Bacterial water To Soak For 5Min, then Put then into 5ML Dilution ,As Prober Dilution .

4-Test Set(Disinfect Samples):Soak 30Pieces into Test Samples With Concentration of 200mg/L To Disinfect . Then Put then into 5ML Of Neutralizer in Test Tube For 10Min, As Prober Dilution .

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

6- 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 of 37.0° For 48H,Count Live and Killed Bacteria .

3.Result:

Under Experiment Conditions , Samples in Concentration of 200 mg/L For 5 Min, Repeated 3Times, Logarithmic average of Killed Bacteria on White Cotton Cloth Escherichia Coli and Staphylococcus Aureus Samples >5.00 (View Table)

Effectiveness on Disinfect Fabric

Test Results As Follows :

Table2:YEARUP Disinfectant Tablet (200mg/L) Disinfection simulation test of Escherichia coli on white cotton cloth

No.	Number of Bacteria on	Number of Bacteria on	Killed Bacteria Positive
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	Positive Set (cfu/sample)	Test Set (cfu/sample)	Set Logarithmic Value (cfu/sample)
1	2.18×10^7	1.65×10^3	4.31
2	1.93×10^7	3.45×10^2	4.62
3	2.65×10^7	3.18×10^2	4.86
4	1.70×10^7	1.35×10^2	5.20
5	2.05×10^7	7.00×10^2	4.50
6	1.30×10^7	4.20×10^2	4.69
7	3.70×10^7	5.00×10^2	4.52
8	4.63×10^7	6.80×10^2	4.55
9	5.28×10^7	2.30×10^3	4.26
10	2.85×10^7	2.03×10^3	4.53
11	2.68×10^7	6.13×10^2	5.06
12	3.53×10^7	2.53×10^2	5.44
13	4.10×10^7	6.85×10^2	4.86
14	2.18×10^7	1.78×10^2	5.56
15	1.70×10^7	2.90×10^2	5.36
16	1.85×10^7	6.80×10^2	4.87
17	5.48×10^7	1.20×10^3	4.41
18	6.65×10^7	6.30×10^2	4.82
19	5.30×10^7	4.35×10^2	4.76
20	4.68×10^7	6.43×10^2	4.55
21	5.43×10^7	5.60×10^2	4.52
22	6.50×10^7	5.68×10^2	4.82
23	5.80×10^7	5.10×10^2	4.54
24	4.08×10^7	2.50×10^3	3.98
25	2.15×10^7	2.65×10^3	3.81
26	6.23×10^7	2.73×10^2	4.57
27	1.65×10^7	5.03×10^2	4.71
28	3.68×10^7	6.10×10^2	4.48
29	4.48×10^7	3.05×10^3	4.07
30	3.90×10^7	5.98×10^2	4.58
Average Value		3.86×10^7	4.65
		8.97×10^{32}	

Negative Set :There's No Viable Bacteria.

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Test Results As Follows :

Table2:YEARUP Disinfectant Tablet(200mg/L) Disinfection simulation test of on white cotton cloth

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	4.60×10^7	3.70×10^2	4.75
2	5.45×10^7	5.65×10^2	4.93
3	6.18×10^7	1.50×10^3	5.09
4	6.85×10^7	2.45×10^3	5.14
5	5.43×10^7	2.13×10^3	4.93
6	6.03×10^7	4.20×10^2	4.72
7	7.08×10^7	3.55×10^2	5.20
8	5.45×10^7	2.08×10^2	4.59
9	3.35×10^7	4.30×10^2	4.80
10	3.50×10^7	6.80×10^2	4.92
11	3.10×10^7	5.30×10^2	4.81
12	3.20×10^7	2.20×10^3	4.96
13	3.40×10^7	5.25×10^2	4.93
14	2.48×10^7	6.00×10^2	4.10
15	2.08×10^7	1.90×10^3	4.10
16	1.89×10^7	3.75×10^2	4.61
17	1.73×10^7	3.83×10^2	4.41
18	3.30×10^7	6.48×10^2	4.75
19	5.15×10^7	3.28×10^2	4.47
20	4.18×10^7	1.90×10^3	4.79
21	3.78×10^7	1.78×10^2	4.86
22	5.85×10^7	5.18×10^2	4.65
23	6.73×10^7	1.60×10^2	4.67

24	6.70×10^7	6.15×10^2	4.99
25	6.55×10^7	2.90×10^3	5.18
26	5.90×10^7	6.48×10^2	4.61
27	6.18×10^7	5.03×10^2	4.03
28	4.15×10^7	4.74×10^2	4.74
29	3.45×10^7	2.08×10^3	4.83
30	200×10^7	5.88×10^2	4.51

Average Value

4.52×10^7

9.66×10^2

5.77

Negative Set :There's No Viable Bacteria.

4. Conclusion :

Under Experiment Conditions , Samples in Concentration of 200mg/L For 5Min, Repeated 3Times, Logarithmic average of Killed Bacteria on White Cotton Cloth Escherichia Coli and Staphylococcus Aureus Samples **>5.00** , According to Regulations of Disinfection Technical Standard ,< 2002 Edition> -2.1.2.9.4 (All Samples Killed Bactria Average ≥ 5.00),So Its Qualified As Disinfectant .