

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 Medical Instruments**

1.Equipments :

1-Test Strains : Bacillus Subtilis var.nier (ATCC 9372) ,Strains Belongs to 5<sup>th</sup> Generation , Source: Guangdong Province Microbial Culture Collection Center .

2-Test Sample (s): Tablets of 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%Lechtin ,0.1%PBS Solution of Cysteine .

2.Method :

1-Test was Conducted According to Heath Ministry <Disinfection Technical Standard >,< 2002 Edition> Part 2-2.1.2.2 ,Drop 0.02ml of sore suspension on teeth and Apply Equally, Place it in box Temperature of 37° till Its Fully Dried to Use .

2- Take a Inoculation plate and add the disinfectant solution according to the amount of 10ml for each carrier, put it into 20° ±2° water bath For 5min .

3- Put 30 Bacterial Samples Soak into 400mg/L Disinfectant To Disinfect For15Min, Take out Samples, Put Separately into 10mLNeutralizer Test Tub. Mix Them Well , Separate Sample Liquid and Pour it into two Inculcation Plates , Put it in Temperature of 37°For 72H, Count the number of Alive bacteria as a test Set.

4 –Replace the Disinfectant With Sterile Distilled Water , Treat 3 Bacterial Sample With The Same Conditions , Then Count The Lived Bacteria As with The Test Set. As Positive Set ,Other Bacteria Amount should Be in Average of  $5 \times 10^5$  cfu/Sample ~  $5 \times 10^6$ cfu/Sample .

3.Result:

Under Experiment Conditions , Samples in Concentration of 400mg/L For 15Min , average of Killed Bacillus Subtilis Bacteria Changing to Spore 5.45 (View Table)

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  
Effectiveness on Disinfect Medical Instruments

Completion Date:6-4-2020

Test Results As Follows :

Table1: Concentration of YEARUP/ Disinfectant Tablet (400mg/L) Disinfection simulation test of Bacillus Subtilis Bacteria Changing to Spore .

Test Set	Number of Positive Set Bacteria (cfu/sample)	Average of Viable Bacteria (cfu/sample)
1	$4.00 \times 10^6$	$3.73 \times 10^6$
2	$4.70 \times 10^6$	
3	$2.50 \times 10^6$	

No.	Number of Test Set Bacteria (cfu/sample)	Value of Killed Bacteria (cfu/sample)
1	$4.60 \times 10^2$	5.91
2	$3.65 \times 10^2$	5.01
3	$1.19 \times 10^3$	5.50
4	$7.20 \times 10^2$	5.71
5	$2.30 \times 10^3$	5.21
6	$1.35 \times 10^3$	5.44
7	$9.65 \times 10^2$	5.59
8	$1.29 \times 10^3$	5.46
9	$1.20 \times 10^3$	5.49
10	$1.25 \times 10^3$	5.48
11	$3.65 \times 10^3$	5.01

12	$7.00 \times 10^2$	5.73
13	$2.40 \times 10^3$	5.19
14	$1.26 \times 10^3$	5.47
15	$1.44 \times 10^3$	5.41
16	$3.30 \times 10^3$	5.05
17	$8.85 \times 10^2$	5.63
18	$2.60 \times 10^3$	5.16
19	$1.07 \times 10^3$	5.54
20	$3.60 \times 10^3$	5.02
21	$1.13 \times 10^3$	5.52
22	$2.20 \times 10^3$	5.23
23	$3.20 \times 10^3$	5.07
24	$1.26 \times 10^3$	5.47
25	$9.75 \times 10^2$	5.58
26	$1.36 \times 10^3$	5.44
27	$1.18 \times 10^3$	5.50
28	$1.01 \times 10^3$	5.57
29	$1.95 \times 10^3$	5.28
30	$6.40 \times 10^2$	5.77

---

Average Value  $1.56 \times 10^3$   
5.45

---

Negative Set :There's No Viable Bacteria

4.Conclusion :

Samples in Concentration of 400mg/L For 15Min, average Number of Killed Bacillus Subtilis Bacteria Changing to Spore 5.45, According to Regulations of Disinfection Technical Standard ,< 2002 Edition> 2.1.2.2.4 ,So Its Qualified As Disinfectant .