









Guangdong Detection Center of Microbiology

Analyses and Test Result Rep.No: 2020FM03476R02

Sample Name: YEARUP Disinfectant Tablet

Received Date: 29-02-2020

Test Items: Field Test of Disinfection

Completion Date: 6-04-2020

## **Effectiveness on Disinfect Drinking Water**

### 1.Equipment

1-Test Sample: YEARUP/ Disinfectant Tablet ,Lot No.2020022401 ,Main Ingredient isCo<sub>2</sub> 10.7%(w/w) .

2-Water Sample : Tap Water

3-Test Strain : Escherichia Coli (8099) Belongs To 5<sup>th</sup> Generation ,Source: Guangdong Province Microbial Culture Collection Center .

4-Culture Medium: Fuchsin Sodium Sulfite.

5- 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

6-Instrument Name and No.: Biochemical Incubator (QFM-B-P017), Electronic Balance JJ500 (QFM-B-P021), Biological Safety Cabinet (QFM-B-P005).

#### 2.Method:

2-Method Introduction : Prepare 200ml Of Tap Water Each Sample is 100ml ,Add Escherichia Coli Suspension ( $5\times10^4$  cfu/ $100Ml \sim 5\times10^5$  cfu/100ml), One of Them is Positive Set Sample and the other is Test Set Sample . Add Disinfection Tablets To the Test Set ,Make The final  $Co_2$  Value in the Water is lmg/L For lmg/L For lmg/L Multiple Nutrient Agar Culture Medium Pad , put it in Incubator With Constant Temperature of lmg/L Watch The Result and Calculate it. Test Repeat lmg/L For lmg/L For lmg/L For lmg/L For lmg/L Watch The Result and Calculate it. Test Repeat lmg/L For lmg

3-Laboratory: Temperature: 22.9c°, Humidity: 58%

## 3.Result:











Test No.	Number of Positive Set Viable Bacteria	Number of Test Set Bacteria
	(cfu/100ml)	(cfu/100ml)
1	$6.80 \times 10^4$	CO 0,
2	$5.70 \times 10^4$	0
3	$8.70 \times 10^4$	0
4	$7.50 \times 10^4$	0
5	$6.20 \times 10^4$	0

Note: Negative Set: There's No Viable Bacteria.

# 4. Conclusion:

Experiment Under Conditions ,Sample With ClO2 Concentration of 1mg/L ,Effective for 15 min, Can Decrease Number of Escherichia Coli Bacteria in Water Up to 0cfu/100ml .