Experiment No – IBPL 20/21R D001 Date; 11/06/2020	Prepared by: NK

1. AIM Test Multipurpose disinfectant on microbes

2. REQUIREMENT
a. Weighing balance
b. Flasks
c. Petri Dishes
d. Test tubes
e. Micropipette and tips
f. Spreader
g. Cotton plug
h. Autoclave
i. Laminar Airflow
j. Burner
k. 70% IPA
l. Nutrient Agar
m. Nutrient Broth
n. Microbes

3. PROCEEDURE:

- Prepare nutrient broth and agar and autoclave at 121˚C for 15 minutes at 15 PSI
- Cool down nutrient broth and pour nutrient agar in petri dishes. Use dishes at 24 and 48 hours
- Inoculate cultures in nutrient broth and incubate at 35˚C for 24 hours
- Use grown cultures for disinfectant test
- Take 3ml of disinfectant and add 1ml of culture into sterile tubes
- Kept under treatment for 20 minutes and spread 0.1ml of treated sample onto NA plate
- 0.1ml of culture spread as a control with no disinfectant treatment
- Incubate at 32˚C for 24 to 48 hours

4. RESULTS

Sr.No	Cultures	Control	Disinfection Dilution			
			(1:10) %Reduction	(1:25) %Reduction	(1:50) %Reduction	(1:100) %Reduction
1	Bacillus	G+			99.90%	
2	Pseudonomas	G+			99.90%	
3	Klibsiella	G+			99.90%	
4	e-coli	G+			99.90%	
5	Consortium	G+	99.90%	99.90%	99.90%	99.90%

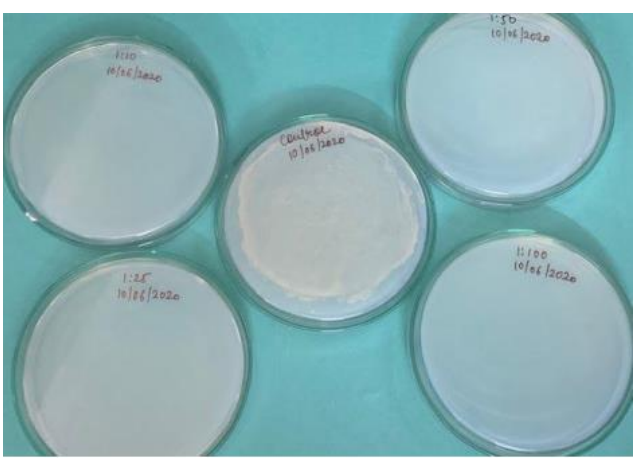
*G+ = Growth

1. Bacillus

2. Pseudomonas

3. Klibsiella

4. e-coli



5. On different dilution of disinfectant no growth was observed

5. CONCLUSION

The above results show that, DESOLVE multipurpose disinfectant can effectively inhibit growth on a wide range of microorganisms.