



# DOCTORS'

ANALYTICAL LABORATORIES PVT. LTD.

Testing for a better world

DOCTORS' ANALYTICAL LABORATORIES PVT. LTD.

R - 809, TTC Rabale MIDC, Thane - Belapur Road, Navi Mumbai - 400 701.

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WEBSITE : www.dalpl.co.in | E-MAIL ID : enquiry@dalpl.co.in

CIN : U85194MH2006PTC165569

alltop India 20 MOST PROMISING  
FOOD & BEVERAGE  
TESTING COMPANIES-2018

Customer Name and Address	<b>SUPARSHVA SWABS (I)</b> D-41 Sec A/2, Tronica City, Ghaziabad -201102 U.P ( India)	Lab code No	<b>20071516499</b>
Sample Name	<b>TULIPS Germ Protection Wipes</b>	Report Date	<b>27-07-2020</b>
Batch No	<b>17420</b>	Sealed/ Unsealed	<b>Sealed</b>
Sample received Date	<b>15-07-2020</b>	Quantity	<b>5 PACKET OF 10 EACH ( 150 mm x 200 mm)</b>
		Other Details	<b>Manufacturing date 10/ 07/2020</b>

## Objective

The aim of the study is to identify the reduction in microbial count (representative microorganism)

## Background

### **Protocol:**

The study was conducted in a simulated experiment representing the practical conditions with selected micro-organisms. The microorganisms which are selected are as follows

***Escherichia coli*** - is a gram negative bacteria and the most common pathogen Present in Fruits and vegetables and In humans, pathogenic *E. coli* strains cause diarrhoea, haemorrhagic colitis, haemolytic uremic syndrome, and other indications Thus it was selected as the representative organism from gram negative group.

***Staphylococcus aureus*** - is Gram-positive bacteria (stain purple by Gram stain) that are cocci-shaped and tend to be arranged in clusters that are described as "grape-like." *S. aureus* are one the most common bacterial infections in humans and are the causative agents of multiple human infections, including, infective endocarditis, skin and soft tissue infections, pulmonary infections, gastroenteritis, meningitis and urinary tract infections.

***Pseudomonas aeruginosa***- A species of gram-negative, aerobic, rod-shaped bacteria commonly isolated from clinical specimens (wound, burn, and urinary tract infections). It is also found widely distributed in soil and water. *P. aeruginosa* is a major agent of nosocomial infection.

***Candida albicans*** - The polymorphic fungus *Candida albicans* is a member of the normal human microbiome. In most individuals, *C. albicans* resides as a lifelong, harmless commensal. Under on infections of the skin to life-threatening

***Aspergillus niger*** - is a fungus and one of the most common species of the genus *Aspergillus*





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It causes a disease called "black mold" on certain fruits and vegetables such as grapes, apricots, onions, and peanuts, and is a common contaminant of food.

**Salmonella-** Salmonella is a genus of rod-shaped (bacillus) Gram-negative bacteria of the family Enterobacteriaceae.. Salmonella infection (salmonellosis) is a common bacterial disease that affects the intestinal tract.

**Procedure:**

- 1.Mark an area of 10/10 cm area on Laminar flow area
- 2.Add 1ml of culture
- 3.Dry for 15 minutes
- 4.Apply sanitizing wipes for 30secs/60secs
- 5.Swab the area ,perform pour plate technique using soyabean casein digest agar in duplicate plates

Efficacy was tested post spiking the samples with representative microorganisms as mentioned above and microbial quantification was done per in house protocol DALPL /SOP/ 561 and testing method based on USP 41 chapter 51/ E ASTM 2783-11





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Name of Organism spiked	Period of exposure of sample with culture (treated sample)	Count of standard culture	Count obtained after treatment (treated sample)	Count of ( Water Control)	% reduction
E.coli	30 seconds	<b>1.2x10<sup>8</sup> cfu/ml</b>	< 1 cfu/ml	<b>5.6x10<sup>5</sup> cfu/ml</b>	99.98
E.coli	60 seconds		< 1 cfu/ml	<b>6.0x10<sup>5</sup> cfu/ml</b>	99.99
salmonella	30 seconds	<b>1.10x10<sup>8</sup> cfu/ml</b>	1.08 x10 <sup>3</sup> cfu/ml	<b>5.0x10<sup>5</sup> cfu/ml</b>	99.99
salmonella	60 seconds		1.02 x10 <sup>3</sup> cfu/ml	<b>4.8x10<sup>5</sup> cfu/ml</b>	99.99
S. aureus	30 seconds	<b>4.6x10<sup>8</sup> cfu/ml</b>	1.10 x10 <sup>6</sup> cfu/ml	<b>6.2x10<sup>5</sup> cfu/ml</b>	99.76
S. aureus	60 seconds		1.01x10 <sup>3</sup> cfu/ml	<b>6.0x10<sup>5</sup> cfu/ml</b>	99.99
Pseudomonas aeruginosa	30 seconds	<b>1.2x10<sup>8</sup> cfu/ml</b>	< 1 cfu/ml	<b>4.6x10<sup>5</sup> cfu/ml</b>	99.99
Pseudomonas aeruginosa	60 seconds		< 1 cfu/ml	<b>4.1x10<sup>5</sup> cfu/ml</b>	99.99
Aspergillus niger	30 seconds	<b>1.44x10<sup>8</sup> cfu/ml</b>	2.7 x10 <sup>2</sup> cfu/ml	<b>5.42x10<sup>5</sup> cfu/ml</b>	99.99
Aspergillus niger	60 seconds		< 1 cfu/ml	<b>4.80x10<sup>5</sup> cfu/ml</b>	99.99
Candida albicans	30seconds	<b>1.51x10<sup>8</sup> cfu/ml</b>	2.01 x10 <sup>1</sup> cfu/ml	<b>5.0x10<sup>5</sup> cfu/ml</b>	99.99
Candida albicans	60 seconds		< 1 cfu/ml	<b>4.64x10<sup>5</sup> cfu/ml</b>	99.99

**COMPILED RESULTS**



*P. Prajakta*

Ms. Prajakta Kulkarni  
Authorized Signatory  
FOR DAL PVT.LTD