



Biocare Research (India) Pvt. Ltd.

CIN : U73100GJ2001PTC39201

Accreditation : AN ISO 9001 : 2008 Laboratory
AN ISO/IEC 17025 : 2005 NABL
(Industrial Testing Laboratory)

Recognised by : Gujarat University, Ahmedabad.



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Telefax : (079) 26577901, 26577903. **Email :** info@biocareindia.com **Website :** www.biocareindia.com

Study Details

Airborne disinfection efficacy study of SATEJ 01 nebulizing H₂O₂+ silver solution in vapor form

- Trial Date : 16/06/2018 at 5pm.
- Trial Venue : GCS Medical College, Hospital and Research Center, OPP BRM Office, Near Chamunda Bridge, Naroda Road, Ahmedabad.
- Study Site : GCS Medical College, Hospital and Research Center, OPP BRM Office, Near Chamunda Bridge, Naroda Road, Ahmedabad.Gujarat, India
- Trial method : Use of Airborne disinfection device SATEJ 01 and SILVICIDE Disinfectant
- Trial purpose : To study disinfection efficacy of airborne disinfection device **SATEJ 01 with SILVICIDE** in operation theatre environment for air and surface disinfection.
- OT Details : OT 02 , Major OT Complex, Orthopedic Surgery OT
- Equipment Used : **SATEJ 01**
AUTOMATED AIR BORNE DISINFECTANT MACHINE
Nebulizes H₂o₂ + silver solution in vapor form
Make: Radiant Enterprise, India.
- Fogging Disinfectant Used : **SILVICIDE**, Product of BioShields , Goa, India
Diluted solution of 5% H₂o₂ and silver.
- Total 800ML solution = 400ml SILVICIDE solution + 400ml of DM water
- Solution consumed per 1000cuft : 200ml / 1000cuft.
- Solution consumed per M³ : 7ml /M³
- Disinfection Treatment room size in CUFT : 4000 cuft (area size 400 sq ft x 10ft height)

gals





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Disinfection : 114 M3 (Area size 38M2 x 3 Meter Height)

Treatment room
size in M3

Aerojet duration : 27 minutes
of operation

Airborne disinfection trial was conducted without manual disinfection of surfaces

- Observations :
1. AIR SAMPLING AND SWABBING WAS CARRIED OUT BEFORE TREATMENT STARTED.
 2. AIR SAMPLING WAS CARRIED OUT BY SETTLE PLATE METHOD
 3. SPECIFIED MEDIA PLATES PLACE IN CENTER OF THE AREA FOR 15 MINUTES. PUT THE LID TO PLATES AND SEND TO LABORATORY FOR FURTHER TESTING.
 4. SWAB SAMPLES WERE COLLECTED FROM VARIOUS SURFACES IN 5X5 cm² AREAS.
 5. TAKE STERILIZED SWABS AND DIP IN NON NUTRITIVE MEDIA.
 6. STREAK THE SWAB IN CLOSE PARALLEL AND PERPENDICULAR SWEEPS OVER DEFINED SAMPLING AREA.
 7. IN LABORATORY,VORTEX THE SWAB AND MAKE SERIAL DILUTION.
 8. INOCULATE DIFFERENT MEDIA ACCORDING TO TESTS.
 9. NO MEDICAL OR ELECTRONIC EQUIPMENT WAS REQUIRED TO COVER DURING THE TREATMENT.
 10. SATEJ 01: AN AIRBORNE DISINFECTION GENERATOR OF H₂O₂ AEROSOL FOG KEPT IN ONE FIXED LOCATION ENSURED UNIFORM SPREAD OF DRY VAPOR OF SILVICIDE ACROSS THE SPACE 4000 CUFT/114M3.
 11. 06 NOS H₂O₂ DETECTION STRIPS PLACED IN VARIOUS CORNERS, DIFFICULT TO ACCESS AREAS OT CHANGED ITS COLOR POST DISINFECTION TREATMENT CERTIFYING UNIFORM SPREAD OF H₂O₂ VAPOR ACROSS THE SPACE AND SURFACES.





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12. DISINFECTANT CONSUMED 7ML/M3 OR 200ML/1000CUFT COMPLIES TO INTERNATIONAL NORMS FOR AIRBORNE DISINFECTION DEVICES AND PROCESS.
13. AT END OF SATEJ 01 OPERATION, OT WAS SEALED AND CLOSED FOR 01 HOUR.
14. AT THE END OF PROCEDURE NO WETNESS OF ON FLOOR, WALLS, MEDICAL EQUIPMENTS, OT LIGHTS, ELECTRONIC EQUIPMENT WAS OBSERVED.
15. AIR SAMPLING AND SWABBING WAS CARRIED OUT 1 hour After Treatment was carried out.
AIR SAMPLING WAS CARRIED OUT BY SETTLE PLATE METHOD
SWAB SAMPLES WERE COLLECTED FROM VARIOUS SURFACES IN 5X5 cm² AREA
16. SAMPLING WAS DONE AS PER OBSERVATION 2-8.

Conclusions

:

THE STUDY SHOWS FOLLOWING OUTCOMES.

1. The pre and post culture results show that there was decrease in microbial load.
2. The combination of airborne disinfection device SATEJ 01 and SILVICIDE were useful reducing microbial load on surfaces and air very effectively , when used after pre cleaning and mopping of surfaces.
3. Such method offers many additional benefits and safety which cannot be achieved alone by manual mopping and wiping.





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TEST REPORT

Test Description : Air Microbial Monitoring
Method : Settled plate
Test site : GCS Medical College, Hospital and Research Center,
OPP BRM Office, Near Chamunda Bridge, Naroda Road,
Ahmedabad.
Test area : OT 2
Ref. No. : Ind/18-19/0107B-A
Date of Testing : 16/06/2018
Date of Report : 23/06/2018
Report status : Final
Result :

S. No.	Test Parameter	Result Obtained CFU/ cm ³ /Plate	
		Pre Fumigation Count	Post Fumigation Count
01	Aerobic Microbial Count	12 cfu	05 cfu
02	Yeast & Mould Count	01 cfu	<01 cfu
03	<i>E.coli</i>	01 cfu	<01 cfu
04	<i>Pseudomonas spp.</i>	<01 cfu	<01 cfu
05	<i>S.aureus</i> (Coag. +Ve)	<01 cfu	<01 cfu
06	<i>Staphylococcus spp.</i> (Coag. -Ve)	05 cfu	01 cfu
07	<i>Bacillus spp.</i>	07 cfu	04 cfu

Remarks:



(Dr. Dilip Zaveri)
Consultant Clinical Microbiologist



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TEST REPORT

Test Description : Surface Hygiene Monitoring
Method : Swab from surface
Test site : GCS Medical College, Hospital and Research Center,
OPP BRM Office, Near Chamunda Bridge, Naroda Road,
Ahmedabad.

Swab Collection area : OT 2
Swab Collection site : FLOOR-1
Size of sampling : 5 X 5 cm
Ref. No. : Ind/18-19/0107B-B1
Date of Testing : 16/06/2018
Date of Report : 23/06/2018
Report status : Final

Result :

S. No.	Test Parameter	Result Obtained CFU/ cm ³ /Swab	
		Pre Fumigation Count	Post Fumigation Count
01	Aerobic Microbial Count	10 cfu	<01 cfu
02	Yeast & Mould Count	<01 cfu	<01 cfu
03	<i>E.coli</i>	<01 cfu	<01 cfu
04	<i>Pseudomonas spp.</i>	<01 cfu	<01 cfu
05	<i>S.aureus</i> (Coag. +Ve)	<01 cfu	<01 cfu
06	<i>Staphylococcus spp.</i> (Coag. -Ve)	03 cfu	<01 cfu
07	<i>Bacillus spp.</i>	06 cfu	<01 cfu

Remarks:



(Dr. Dilip Zaveri)
Consultant Clinical Microbiologist



TEST REPORT

Test Description : Surface Hygiene Monitoring
Method : Swab from surface
Test site : GCS Medical College, Hospital and Research Center,
OPP BRM Office, Near Chamunda Bridge, Naroda Road,
Ahmedabad.

Swab Collection area : **OT 2**
Swab Collection site : FLOOR-2
Size of sampling : 5 X 5 cm
Ref. No. : Ind/18-19/0107B-B2
Date of Testing : 16/06/2018
Date of Report : 23/06/2018
Report status : Final

Result :

S. No.	Test Parameter	Result Obtained CFU/ cm ³ /Swab	
		Pre Fumigation Count	Post Fumigation Count
01	Aerobic Microbial Count	09 cfu	<01 cfu
02	Yeast & Mould Count	<01 cfu	<01 cfu
03	<i>E.coli</i>	<01 cfu	<01 cfu
04	<i>Pseudomonas spp.</i>	<01 cfu	<01 cfu
05	<i>S.aureus (Coag. +Ve)</i>	<01 cfu	<01 cfu
06	<i>Staphylococcus spp. (Coag. -Ve)</i>	04 cfu	<01 cfu
07	<i>Bacillus spp.</i>	04 cfu	<01 cfu

Remarks:



(Dr. Dilip Zaveri)
Consultant Clinical Microbiologist



TEST REPORT

Test Description : Surface Hygiene Monitoring
Method : Swab from surface
Test site : GCS Medical College, Hospital and Research Center,
OPP BRM Office, Near Chamunda Bridge, Naroda Road,
Ahmedabad.
Swab Collection area : OT 2
Swab Collection site : OT TABLE-1
Size of sampling : 5 X 5 cm
Ref. No. : Ind/18-19/0107B-B3
Date of Testing : 16/06/2018
Date of Report : 23/06/2018
Report status : Final
Result :

S. No.	Test Parameter	Result Obtained CFU/ cm ³ /Swab	
		Pre Fumigation Count	Post Fumigation Count
01	Aerobic Microbial Count	02 cfu	<01 cfu
02	Yeast & Mould Count	<01 cfu	<01 cfu
03	<i>E.coli</i>	<01 cfu	<01 cfu
04	<i>Pseudomonas spp.</i>	<01 cfu	<01 cfu
05	<i>S.aureus (Coag. +Ve)</i>	<01 cfu	<01 cfu
06	<i>Staphylococcus spp. (Coag. -Ve)</i>	<01 cfu	<01 cfu
07	<i>Bacillus spp.</i>	02 cfu	<01 cfu

Remarks:



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TEST REPORT

Test Description : Surface Hygiene Monitoring
Method : Swab from surface
Test site : GCS Medical College, Hospital and Research Center,
OPP BRM Office, Near Chamunda Bridge, Naroda Road,
Ahmedabad.

Swab Collection area : OT 2
Swab Collection site : OT TABLE-2
Size of sampling : 5 X 5 cm
Ref. No. : Ind/18-19/107B-B4
Date of Testing : 16/06/2018
Date of Report : 23/06/2018
Report status : Final

Result :

S. No.	Test Parameter	Result Obtained CFU/ cm ³ /Swab	
		Pre Fumigation Count	Post Fumigation Count
01	Aerobic Microbial Count	02 cfu	<01 cfu
02	Yeast & Mould Count	<01 cfu	<01 cfu
03	<i>E.coli</i> & <i>Klebsiella</i>	<01 cfu	<01 cfu
04	<i>Pseudomonas spp.</i>	<01 cfu	<01 cfu
05	<i>S.aureus</i> (Coag. +Ve)	<01 cfu	<01 cfu
06	<i>Staphylococcus spp.</i> (Coag. -Ve)	<01 cfu	<01 cfu
07	<i>Bacillus spp.</i>	02 cfu	<01 cfu

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TEST REPORT

Test Description : Surface Hygiene Monitoring
Method : Swab from surface
Test site : GCS Medical College, Hospital and Research Center,
OPP BRM Office, Near Chamunda Bridge, Naroda Road,
Ahmedabad.

Swab Collection area : OT 2
Swab Collection site : INSTRUMENT TROLLY
Size of sampling : 5 X 5 cm
Ref. No. : Ind/18-19/0107B-B5
Date of Testing : 16/06/2018
Date of Report : 23/06/2018
Report status : Final

Result :

S. No.	Test Parameter	Result Obtained CFU/ cm ³ /Swab	
		Pre Fumigation Count	Post Fumigation Count
01	Aerobic Microbial Count	<01 cfu	<01 cfu
02	Yeast & Mould Count	<01 cfu	<01 cfu
03	<i>E.coli</i>	<01 cfu	<01 cfu
04	<i>Pseudomonas spp.</i>	<01 cfu	<01 cfu
05	<i>S.aureus</i> (Coag. +Ve)	<01 cfu	<01 cfu
06	<i>Staphylococcus spp.</i> (Coag. -Ve)	<01 cfu	<01 cfu
07	<i>Bacillus spp.</i>	<01 cfu	<01 cfu

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TEST REPORT

Test Description : Surface Hygiene Monitoring
Method : Swab from surface
Test site : GCS Medical College, Hospital and Research Center,
OPP BRM Office, Near Chamunda Bridge, Naroda Road,
Ahmedabad.

Swab Collection area : OT 2
Swab Collection site : ANESTHETIST TROLLY
Size of sampling : 5 X 5 cm
Ref. No. : Ind/18-19/0107B-B6
Date of Testing : 16/06/2018
Date of Report : 23/06/2018
Report status : Final

Result :

S. No.	Test Parameter	Result Obtained CFU/ cm ³ /Swab	
		Pre Fumigation Count	Post Fumigation Count
01	Aerobic Microbial Count	10 cfu	<01 cfu
02	Yeast & Mould Count	06 cfu	<01 cfu
03	<i>E.coli</i>	01 cfu	<01 cfu
04	<i>Pseudomonas spp.</i>	<01 cfu	<01 cfu
05	<i>S.aureus (Coag. +Ve)</i>	<01 cfu	<01 cfu
06	<i>Staphylococcus spp. (Coag. -Ve)</i>	<01 cfu	<01 cfu
07	<i>Bacillus spp.</i>	03 cfu	<01 cfu

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TEST REPORT

Test Description : Surface Hygiene Monitoring
Method : Swab from surface
Test site : GCS Medical College, Hospital and Research Center,
OPP BRM Office, Near Chamunda Bridge, Naroda Road,
Ahmedabad.

Swab Collection area : **OT 2**
Swab Collection site : SUCTION
Size of sampling : 5 X 5 cm
Ref. No. : Ind/18-19/0107B-B7
Date of Testing : 16/06/2018
Date of Report : 23/06/2018
Report status : Final

Result :

S. No.	Test Parameter	Result Obtained CFU/ cm ³ /Swab	
		Pre Fumigation Count	Post Fumigation Count
01	Aerobic Microbial Count	TNTC*	<01 cfu
02	Yeast & Mould Count	65 cfu	<01 cfu
03	<i>E.coli</i>	125 cfu	<01 cfu
04	<i>Pseudomonas spp.</i>	TNTC*	<01 cfu
05	<i>S.aureus</i> (Coag. +Ve)	<01 cfu	<01 cfu
06	<i>Staphylococcus spp.</i> (Coag. -Ve)	<01 cfu	<01 cfu
07	<i>Bacillus spp.</i>	<01 cfu	<01 cfu

*TNTC= Too Numerous Too Count

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TEST REPORT

Test Description : Surface Hygiene Monitoring
Method : Swab from surface
Test site : GCS Medical College, Hospital and Research Center,
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Swab Collection area : **OT 2**
Swab Collection site : WALL-1
Size of sampling : 5 X 5 cm
Ref. No. : Ind/18-19/0107B-B8
Date of Testing : 16/06/2018
Date of Report : 23/06/2018
Report status : Final
Result :

S. No.	Test Parameter	Result Obtained CFU/ cm ³ /Swab	
		Pre Fumigation Count	Post Fumigation Count
01	Aerobic Microbial Count	<01 cfu	<01 cfu
02	Yeast & Mould Count	<01 cfu	<01 cfu
03	<i>E.coli</i>	<01 cfu	<01 cfu
04	<i>Pseudomonas spp.</i>	<01 cfu	<01 cfu
05	<i>S.aureus</i> (Coag. +Ve)	<01 cfu	<01 cfu
06	<i>Staphylococcus spp.</i> (Coag. -Ve)	<01 cfu	<01 cfu
07	<i>Bacillus spp.</i>	<01 cfu	<01 cfu

Remarks:



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TEST REPORT

Test Description : Surface Hygiene Monitoring
Method : Swab from surface
Test site : GCS Medical College, Hospital and Research Center,
OPP BRM Office, Near Chamunda Bridge, Naroda Road,
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Swab Collection area : **OT 2**
Swab Collection site : WALL-2
Size of sampling : 5 X 5 cm
Ref. No. : Ind/18-19/0107B-B9
Date of Testing : 16/06/2018
Date of Report : 23/06/2018
Report status : Final

Result :

S. No.	Test Parameter	Result Obtained CFU/ cm ³ /Swab	
		Pre Fumigation Count	Post Fumigation Count
01	Aerobic Microbial Count	<01 cfu	<01 cfu
02	Yeast & Mould Count	<01 cfu	<01 cfu
03	<i>E.coli</i>	<01 cfu	<01 cfu
04	<i>Pseudomonas spp.</i>	<01 cfu	<01 cfu
05	<i>S.aureus</i> (Coag. +Ve)	<01 cfu	<01 cfu
06	<i>Staphylococcus spp.</i> (Coag. -Ve)	<01 cfu	<01 cfu
07	<i>Bacillus spp.</i>	<01 cfu	<01 cfu

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Test Description : Surface Hygiene Monitoring
Method : Swab from surface
Test site : GCS Medical College, Hospital and Research Center,
OPP BRM Office, Near Chamunda Bridge, Naroda Road,
Ahmedabad.
Swab Collection area : OT 2
Swab Collection site : DOOR
Size of sampling : 5 X 5 cm
Ref. No. : Ind/18-19/0107B-B10
Date of Testing : 16/06/2018
Date of Report : 23/06/2018
Report status : Final
Result :

S. No.	Test Parameter	Result Obtained CFU/ cm ³ /Swab	
		Pre Fumigation Count	Post Fumigation Count
01	Aerobic Microbial Count	<01 cfu	<01 cfu
02	Yeast & Mould Count	<01 cfu	<01 cfu
03	<i>E.coli</i>	<01 cfu	<01 cfu
04	<i>Pseudomonas spp.</i>	<01 cfu	<01 cfu
05	<i>S.aureus</i> (Coag. +Ve)	<01 cfu	<01 cfu
06	<i>Staphylococcus spp.</i> (Coag. -Ve)	<01 cfu	<01 cfu
07	<i>Bacillus spp.</i>	<01 cfu	<01 cfu

Remarks:



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Consultant Clinical Microbiologist