# NANO KANAK BIOTECH PVT LTD BIO NANO SILVER ™

## **SURFACE PROTECTOR**

**Multi-purpose** 



## PRODUCT TESTED FROM WORLD RENOWNED TESTING LABORATORY



## **Product Concept**



## The concept

The product **Bio Nano Silver, Surface Protector** is based on the Nano Silver ion that manufacture from the technique of Biologically Synthesis **Nanotechnology**. The Particles size of the Silver ions are in **Nanometer**, which is around 40,000 times smaller than the Human Hair

## What is Nanotechnology ?

"Nanotechnology is the art and science of manipulating matter / elements or product at **NANO SCALE**"

- 1 nm = one billionth (10<sup>-9</sup>) of metre
- Size range between 0.1 and 100 nm



## **Product Concept**

## Why Nano Silver Ion used in the Surface Protector ?

- Since ancient times & 1000 odecades, the silver known as an effective against a broad range of microorganisms.
- The Greeks used silver vessels to keep water fresh.
- The Roman Empire stored wine in silver to prevent spoilage.
- Australian people suspend silverware in their water tanks to retard spoilage.
- Japanese work place, silver is a popular agent in the fight against airborne toxins.
- In Switzerland silver water filters purifier were used in homes and offices to prevent the growth of micro organisms.
- Some U.S. municipalities use silver in treatment of sewage.
- The former Soviet Union used silver to sterilize recycled water on their space vehicles.
- In Ayurvedic medicine, silver used as a tonic, elixir or rejuvenative agent for patients debilitated by age or disease.

Silver Foil used in Indian sweets as Varakh.

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## Nano Silver Concept

## **Working Principal of Nano Silver**

- Microorganism exposed to Silver Ion, it bind to surface of cell wall of the MO.
- Silver Ion creating a rupture leading to cell lysis, breakdown of the cell wall of the MO.
- Due to Nano in size, silver ion enter inside the cell of the micro-organism that attached to metabolic enzymes.
- This enzyme nts and energy to the cell, leading to stopping the transfer of nutrients and suffocation the microorganism.
- It further stopping reproduction of the cell.



## **Product Efficacy**

## **ANTI-MICROBIAL EFFICACY**

- Due to the Nano size of the Silver Ion the contact surface area increases.
- ➢ Bio Nano Silver<sup>™</sup> Surface protector interaction with the Microorganism increases 80-100 times as compared to other surface protector.
- ➢ Bio Nano Silver<sup>™</sup> Surface protector inhibits the growth of the Microorganisms upto 99.99%.
- Nano Silver is an effective Antimicrobial in more than 650 Microorganisms, including Bacteria, fungus, Protozoa, Algae, Virus and may also include all strains of Corona Viruses.
- ➢ Bio Nano Silver<sup>™</sup> Surface protector has been tested from the World renowned laboratory known as SGS, India and Eurofins, India.
- The product shows excellent and remarkable result in Anti-microbial efficacy and controlling the micro-organism growth on the surface upto **30 Days**.



## **Product** pecification

## **Product Information**

- The product is based on Food grade Silver Ion incorporated with acrylic binder, hence **100% safe** for the Human contact.
- Product is environment friendly, alcohol free and non-toxic protective coating that provides non-stop 24 hr protection.
- Ordinary alcohol based surface protector provide only instant protection leaving you vulnerable even after 5mins of application.
- > Product is aqueous liquid, water soluble & thermal stable.
- Physical Appearance : White opaque liquid, Viscosity 0.0091 poise at 25 Degree Celsius.
- After coating/application a thin transparent layer is formed on the surface with the impression of minute silver particles.
- Coating Durability depends that how frequently the applied surface been used / contact / touched with the external sources.
- Dilution rate : 1% to 5 % of Bio Nano Silver<sup>TM</sup> Surface protector in water.
  1% dilution rate coating long last for 1-2 days
  5 % dilution rate coating long last 7-10 days
- Usage : Foliar spray, sprinkle, mist or few drop into a sponge to uniformly apply on the surface.

## **Product Application**

## **Application**

- Coating application can be done almost on all the surfaces i.e Cement, glass, plastic, metal, clothing, fiber, paper, etc.
- Applicable for Hard & Soft surfaces. Surface
- Recommended : Hospital, Public & Private Transports, Elevator, Vehicles, Hotels, Restaurants, Railway, Metro, Buses, Door knobs, furnitures, ATM machine, Kitchen counters, Stairs railings, Malls, Government offices, Corporate offices, Defense, etc.















#### Customer Detail –Kanak Biotech

C-34, Sigaddi Growth Centre, Kotdwar, Uttarakhand, 246149

Sample Name: Bio Nano Silver "Surface protector

### Validation Report

Sample Code- 260-2021-09000383

Sample Receipt : Sep 10,2021

Analysis Start date : Sep 10,2021

Analysis End Date : Sep 21,2021

Test Method: JIS2801 :2010

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#### **Test Organisms Used:**

- 1. Escherichia coli (ATCC -8739) 1.8 x 10<sup>7</sup> CFU/ml
- 2. Staphylococcus aureus (ATCC-6538) 3.2 x 10<sup>6</sup> CFU/ml
- 3. MS2 phase virus (ATCC-15597-B1, ATCC-15597) 2.7 x 10<sup>7</sup> PFU/ml

#### Sample Particulars:

Untreated Plastic sample and treated plastic sample marked and spray with Kanak biotech BIO NANO SILVER (Surface protector)

1. **Dilution Medium Used:** Phosphate *Buffered* Saline Buffer Solution, Tryptic Soy Broth (D/E Neutralizing Broth)

Method of Sterilization: N/A

Contact Time: 24 hrs

#### Test Microorganism information:

MS2 Bacteriophage (MS2) is an RNA virus of the family Leviviridae. Escherichia coli 15597 are the host for MS2 bacteriophages. Due to its environmental resistance, MS2 bacteriophages are used as a surrogate virus (particularly in place of Picomaviruses such as Poliovirus and human Norovirus) in water quality and Antimicrobial studies.

Virus: MS2 Phase virus

Permissive Host Cell: Escherichia coli ATCC 15597

#### ANTIBACTERIAL ACTIVITY

1. Test Bacteria: Staphylococcus aureus

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|                                                                                                         | Quantitative A                                     | ssessment of Activ             | ity- JIS 2801-2010                                              |                                 |  |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------|-----------------------------------------------------------------|---------------------------------|--|
| Untreated Sample: Concentration of Inoculum in untreated (Uo): 4.12 X 10 <sup>6</sup> CFU/ml            |                                                    |                                |                                                                 | Log = 6.61                      |  |
| Untreated Sample: Concentration after 24 hour of incubation (Ut): 2.84 X 10 <sup>6</sup> CFU/ml         |                                                    |                                |                                                                 |                                 |  |
| No. of bacteria recovered in untr                                                                       | No. of bacteria recovered in untreated sample (Ut) |                                |                                                                 |                                 |  |
| Antibacterial Activity: R= (Ut –Ud                                                                      | o)-(At-Uo)                                         |                                |                                                                 |                                 |  |
| Sample Identification                                                                                   | No. of Bacteria<br>Recovered(At)                   | Log Bacteria<br>recovered (At) | Antibacterial Activity(R)<br>(value criteria : not less than 2) | Microbial Kill<br>(% Reduction) |  |
| Treated plastic sample marked<br>and spray with Kanak biotech<br>BIO NANO SILVER (Surface<br>protector) | 4400                                               | 3.64                           | 2.81                                                            | 99.84                           |  |

#### 2. Test Bacteria: Escherichia Coli

|                                                                                                 | Quantitative As                  | ssessment of Activi            | ty- JIS Z 2801: 2010                                            |                                 |
|-------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------|-----------------------------------------------------------------|---------------------------------|
| Untreated Sample: Concentration of Inoculum in untreated (Uo): 5.75 X 10 <sup>6</sup> CFU/ml    |                                  |                                |                                                                 |                                 |
| Untreated Sample: Concentration after 24 hour of incubation (Ut): 3.15 X 10 <sup>6</sup> CFU/ml |                                  |                                |                                                                 |                                 |
| No. of bacteria recovered in untreated Sample (Ut)                                              |                                  |                                |                                                                 |                                 |
| Antibacterial Activity: R= (Ut –Ud                                                              | o)-(At-Uo)                       |                                |                                                                 |                                 |
| Sample Identification                                                                           | No. of Bacteria<br>Recovered(At) | Log Bacteria<br>recovered (At) | Antibacterial Activity(R)<br>(value criteria : not less than 2) | Microbial Kill<br>(% Reduction) |
| Treated plastic sample marked                                                                   | 3600                             | 3.6                            | 2.89                                                            | 99.9                            |

| Treated plastic sample marked | 3600 | 3.6 | 2.89 | 99.9 |
|-------------------------------|------|-----|------|------|
| and spray with Kanak biotech  |      |     |      |      |
| BIO NANO SILVER (Surface      | 1    |     |      |      |
| protector)                    |      |     |      |      |

#### 3. Test Bacteria: Virus (MS2 PHASE)

| Quantitative Assessment of Activity- EASI – MB-SOP -32 (In House M                             | ethod)     |
|------------------------------------------------------------------------------------------------|------------|
| Untreated Sample: Concentration of Inoculum in untreated (Uo): 4.59 X 10 <sup>5</sup> PFU/ml   | Log = 5.66 |
| Untreated Sample: Concentration after 24 hour of incubation (Ut):2.28 X 10 <sup>5</sup> PFU/ml | Log = 5.36 |
| No. of Virus recovered in untreated sample (Ut)                                                | 228000     |

| Sample Identification                                                                                   | No. of Virus  | Log Virus      | Antiviral Activity                 | Viral Kill    |
|---------------------------------------------------------------------------------------------------------|---------------|----------------|------------------------------------|---------------|
|                                                                                                         | Recovered(At) | recovered (At) | (value criteria : not less than 2) | (% Reduction) |
| Treated plastic sample marked<br>and spray with Kanak biotech<br>BIO NANO SILVER (Surface<br>protector) | 200           | 2.3            | 3.06                               | 99.9          |

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Test Report:

The standard Antimicrobial value of Evaluation: R > 2

**Conclusion:** 

When tested as specified Antibacterial & Antiviral Test sample with Kanak biotech BIO NANO SILVER (Surface protector) PASSES the quantitative assessment of activity tested as per JIS Z 2801: 2010 & Ms2 phage Virus In House test method.

**Remark:** The product Kanak biotech, Bio Nano Silver (Surface protector) has been tested on MS2 Bacteriophage Virus (MS2) is an RNA virus of the family Leviviridae. As Escherichia coli 15597 are the host for MS2 bacteriophages. MS2 bacteriophages are used as a surrogate virus (particularly in place of Picomaviruses such as Poliovirus and human Norovirus).

As (MS2) bacteriophage is a family of Virus, so it is further expected that it may kill/ control the applied surface, from the effect of all the strains of the Corona / Covid viruses.

Note: The above results pertain only to the sample tested and applicable parameter.

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## The Standard: ASTM G-21Fungal resistance TEST

#### Customer Detail – Kanak Biotech

C-34, Sigaddi Growth Centre, Kotdwar Uttarakhand 246149

## Validation Report

### Sample Code- 260-2021-09000383

Sample Receipt : Sep 10,2021

Analysis Start date : Sep 10,2021

Analysis End Date : 7 Oct,2021

Test Method: ASTM G-21

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### The Standard: ASTM G-21Fungal resistance TEST

#### **Objective:**

To evaluate the Mold / Fungal resistance properties on the surface of the Plastic, which has been treated with the product Kanak Biotech, Bio nano silver (Surface Protector) as seen in the ASTM G-21 fungal resistance test.

#### Test Sample Description:

Plastic Surface treated with Kanak Biotech, Bio Nano Silver (Surface Protector)

#### **Experimental Summary:**

ASTM G-21 utilizes a nutrient salts agar that provides all the trace nutritional elements needed by fungi to support growth. Samples were received for testing. Testing was performed according to ASTM G21, which determines the resistance of synthetic polymeric materials to fungi. Samples were tested using petri dishes containing sterile nutrient salts agar (pH 6.5) and one 2"x2" piece of each coupon. Each sample type was tested in triplicates. Each replicate was inoculated with a fungal suspension that consisted of equal volumes (30.0 mL) of 1 mold suspensions that were at a concentration of 1,000,000 spore  $\pm$  200,000 per ml. The fungal species tested included *Aspergillus niger* ATCC 6275,Candia albicans ATCC 10231. One non inoculated coupon per sample type was included as negative control as well as a set of media blanks as controls. Samples and controls were incubated at 27.0<sup>0</sup>C  $\pm$  2.0<sup>0</sup>C for 14 days at relative humidity of 85.0% for 2 weeks with reading taken after 7, 14, 28 days according to the rating scale below.

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## The Standard: ASTM G-21Fungal resistance TEST

#### **Results:**

After 4 weeks of incubation, the results for the test pieces can be found in the data table below. The control test pieces had copious no fungal growth at Day 14 & 28 confirming the validity of the test. Temperature and humidity were maintained for the duration of the test. These results pertain only to the sample tested.

The rating scale for this test is as follows:

| Observed Growth on Specimens Rating         | Rating |  |
|---------------------------------------------|--------|--|
| None                                        | 0      |  |
| Traces of Growth (less than 10%)            | 1      |  |
| Light Growth (10-30%)                       | 2      |  |
| Medium Growth (30-60%)                      | 3      |  |
| Heavy Growth (60-100% to complete coverage) | 4      |  |

At week 2, sample rating a "0" or "3" were examined microscopically to confirm the ratings.

| Sample Identification | Rep | Week1 | Week 2   | Week 3     | Week 4 |
|-----------------------|-----|-------|----------|------------|--------|
| -                     |     |       | ASTM G-2 | -21 Rating |        |
| Untreated Plastic     | 1   | 0     | 0        | 0          | 0      |
| sample and treated    | 2   | 0     | 0        | 0          | 0      |
| plastic sample marked |     |       |          |            |        |
| and sprayed with      |     |       |          |            |        |
| Kanak biotech BIO     | 3   | 0     | 0        | 0          | 0      |
| NANO SILVER (Surface  |     |       |          |            |        |
| protector)            |     |       |          |            |        |
| Media control         | 1   | 0     | 0        | 0          | 0      |
|                       | 2   | 0     | 0        | 0          | 0      |
|                       | 3   | 0     | 0        | 0          | 0      |
| Positive control      | 1   | 2     | 3        | 4          | 4      |
|                       | 2   | 2     | 3        | 4          | 4      |
|                       | 3   | 2     | 3        | 4          | 4      |

**Conclusion:** The sample has been sprayed on the plastic surface and allowed the surface for 15 – 20 min to dry. Thin layer containing minute particle visible after the dry. Then the sample tested as specified Antifungal activity sample which **PASS** the quantitative assessment of activity tested as per **ASTM G-21**.

Analyzed by:

Verified and Authorized by: al Sen iurgao

122016

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Print Date : 15/09/2016

#### Test Report

#### SAMPLE NOT DRAWN BY SGS INDIA PVT. LTD.

Report No : GG16-002825.001-R1

JOE No : GG16-002825

: GGR0000381658 BIO NANO SILVER

**Report Control No** 

:

Sample Described by Customer as

| Client Name         | : KANAK BIOTECH                |
|---------------------|--------------------------------|
| Client Address      | : C-34, SIGADDI GROWTH CENTRE, |
| City                | : KOTDWAR                      |
| State               | : UTTARAKHAND                  |
| Country             | : INDIA                        |
| Sample Type         | : BIO NANO SILVER              |
| Received            | : 13/07/2016                   |
| Marks on Sample     | : 279PPM                       |
| Composition         | 1:10 WITH DISTILLED WATER      |
| Sample Qty. Recd.   | 100ml                          |
| Batch No.           | O-NAG-06-16                    |
| Mfg. Date           | JUNE-2016                      |
| Manufactured By     | KANAK BIOTECH                  |
| Best Before         | 1 YEAR                         |
| Test Start/End Date | : 13/07/2016 - 15/09/2016      |

#### This Report/Certificate cancels and supersedes the Report/Certificate No GG16-002825.001 dated 8/31/2016 (MM/DD/YYYY)

(FC

#### issued by SGS India

| Analysis                       | Method   | Result          | Unit |
|--------------------------------|----------|-----------------|------|
| Antimicrobial Efficacy Testing | USP : 39 |                 |      |
| 3 hours (E.coli)               |          | 1 log reduction |      |
| 24 hours                       | X        | 5 log reduction |      |
| 7th day                        |          | 5 log reduction |      |
| 14th day                       |          | 5 log reduction |      |
| 28th day                       |          | 5 log reduction |      |
| 3 hours (Pseudomonas           |          | 1 log reduction |      |
| Aeruginosa)<br>24 hours        |          | 5 log reduction |      |
| 7th day                        |          | 5 log reduction |      |
| 14th day                       |          | 5 log reduction |      |
| 28th day                       |          | 5 log reduction |      |

#### Page 1 of 3

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#### Test Report

#### SAMPLE NOT DRAWN BY SGS INDIA PVT. LTD.

Report No

GG16-002825.001-R1

JOE No : GG16-002825

Report Control No : GGR0000381658

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| Analysis                           | Method        | Result          | Unit |
|------------------------------------|---------------|-----------------|------|
|                                    |               |                 |      |
| 3 hours (Staphylococcus aureus)    |               | 1 log reduction |      |
| 24 hours                           |               | 5 log reduction |      |
| 7th day                            |               | 5 log reduction |      |
| 14th day                           |               | 5 log reduction |      |
| 28th day                           |               | 5 log reduction |      |
| 3 hours (Candida albicans)         |               | No reduction    |      |
| 24 hours                           |               | 5 log reduction |      |
| 7th day                            |               | 5 log reduction |      |
| 14th day                           |               | 5 log reduction |      |
| 28th day                           |               | 5 log reduction |      |
| 3 hours (Aspergillus Brasiliensis) | 1             | No reduction    |      |
| 24 hours                           |               | No reduction    |      |
| 7th day                            | 0             | 5 log reduction |      |
| 14th day                           | NY.           | 5 log reduction |      |
| 28th day                           | $\mathcal{C}$ | 5 log reduction |      |
|                                    |               |                 |      |

Remark : The sample complies with respect to the above test as per the USP 39 specification, bio nano silver (1:10) with water is an effective antimicrobial on the above microorganism within 3 hours - 28 days.

#### Page 2 of 3

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Print Date : 15/09/2016

#### Test Report

#### SAMPLE NOT DRAWN BY SGS INDIA PVT. LTD.

JOE No : GG16-002825

GG16-002825.001-R1 **Report No** 

> : GGR0000381658 **Report Control No**

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\*\*\*\*End of Report\*\*\*\*

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