

Easy-to-use  
**BACTASLYDE**<sup>®</sup>  
Microbe Detection Device



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**RAKIRO BIOTECH SYSTEMS PVT LTD**  
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## BACTASLYDE : Comparison with Other Methods

Methods	No. of Steps involved	Trained manpower	Pre treatment of sample	Maintenance	Convenience	Capital Investment
Plate Count Method	6	Required	Not Required	Required	Tedious	Required
Most Probable Number	6	Required	Not Required	Required	Tedious	Required
Membrane Filter	6	Required	Not Required	Required	Tedious	Required
Direct Counts	4	Required	Required	Required	Convenient	Required
Bioluminescence	3	Required	Essential	Required	Convenient	Required
Direct Epifluorescence Technique (DEFT)	6	Required	Essential	Required	Convenient	Required
<b>BACTASLYDE</b>	<b>1</b>	<b>Not Required</b>	<b>Not Required</b>	<b>Not Required</b>	<b>Most Convenient</b>	<b>Not Required</b>

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## Nitrifying / Denitrifying Bacteria BS 130

Nitrifying bacteria are autotrophic and are responsible for the conversion of Ammonia to Nitrates. These then produce Nitric Acid. Some of the Species can be particularly troublesome in Cooling systems as they form Zoogloea, masses of the organisms embedded in slime. Nitrifying Bacterial species are generally found in Fertilizer Industries , where the Ammonia ingress in Water is high.

Denitrifying Bacteria work in the reverse way by reducing Nitrates to Nitrites and then to Ammonia. These Bacteria are detrimental to Close Systems, where Nitrite based Corrosion Inhibitors are used.

### Contents

- Set of Media Bottles and Sterile Syringe : 5 nos.
- Reagent N1
- Reagent N2 with Spoon.
- Reagent N3 with Spoon.

### Storage

**BACTASLYDE BS-130** is best preserved in a refrigerator (15 °C - 20 °C). If a refrigerator is not available, store at room temperature in a cool place protected from heat, light and draught. If stored this way the Product will keep for 6 months from the date of manufacture. **BACTASLYDE** should not be frozen.



### Disposal

After use pour the contents of the bottle into the toilet and flush immediately. Add any disinfecting solution, eg. Dettol, Savlon, Phenol etc. in the empty bottle and discard the content in the same manner as above, after a couple of hours.

## How to use

- Three media bottles (A, B, C) are to be used for each sample.
- Add to bottles A, B & C, 1 ml of the test sample with the syringe provided. Mix.
- Incubate all 3 bottles at ambient temperature for 24 hours.
- After 24 hours add 20 drops of Reagent N1 in Bottle A. Mix and allow standing for 2 minutes.
- Now add 5 spoonfuls (provided here) of Reagent N2 in Bottle A.
- No Colour change denotes the presence of Nitrifying / Denitrifying Bacteria. The test is then concluded here.
- However If Bottle A shows a Pink colour, this indicates presence of Nitrite and therefore absence of Nitrifying/ Denitrifying Bacteria.
- Then continue to incubate Bottles B and C for 48 hours.
- Add 20 drops of Reagent N1 and 5 spoonfuls of Reagent N2 in Bottle B, following the same procedure as in A.
- If Bottle B also shows a pink colour, then incubate Bottle C for 72 hours.
- Follow the same procedure of adding N1 and N2 in C.
- The Bottle that showed no coloration should be tested further for identifying if the bacteria present were of the Nitrifying or Denitrifying type.
- Add a spoonful of N3 in the Bottle, if a Red colour develops then the bacteria are Nitrifying and if still there is no colour, then it follows that the Bacteria are Denitrifying.

## Interpretation

Growth (Bottle A colourless) within 24 hours : Aggressive presence.

Growth (Bottle B colourless) within 48 hours : Moderate presence.

Growth (Bottle C colourless) within 72 hours : Mild presence.



Present (Growth)



Absent

## BACTASLYDE : Application in Different Industries

Industry	Application	Bactaslyde Code
Paint & Pigments	Process & production waters, raw materials, Finished products (water based paint & pigments)	BS 101, BS 102, BS 103
Metal Working Fluids	Cutting oils, coolants in the sump, raw water (make-up)	BS 101, BS 103, BS 115
Cooling Water Systems	Make-up waters, cooling waters, (recirculating water, basin water) Close systems	BS 103, BS 115, BS PP1 BS 125, BS 130
Food Processing Industry	Raw materials (e.g. cream, milk, meat, fish, vegetables), Water used for production and cleaning purpose, finished products (e.g. meat / fish preparations, cakes, soups, sauces, jams, squashes,spices)	BS 101, BS 102, BS 103, BS PP2, BS PP3, BS PP4
Pulp & Paper Industry	White waters (slurry and pulp mixtures), process waters	BS 101, BS 103, BS 115 BS 125
Sugar Industry	Primary, mixed, clarified juice, process waters, finished sugar	BS 101, BS 103, BS 115
Water Treatment Chemical Manufacturers	Laboratory and onsite, evaluation of biocides	BS 103, BS 115, BS PP 1 BS 125, BS 130

Industry	Application	Bactaslyde Code
Manufacturers Bulk Drug	Process waters, production water, (demineralized water)	BS 103, BS 115
Manufacturers Water & Waste Water Treatment Systems	Monitoring of waste water at different stages	BS 102, BS 103, BS 115 BS 125
Cosmetics	Process waters. (demineralized water) raw materials, finished product.	BS 101, BS 102, BS 103, BS PP 2, BS PP 3
Dairy	Raw milk, pasteurised milk, evaluation of the cleaning-in-process.	BS 101, BS 102, BS 103 , BS PP 2, BS PP 3
Brewery	Process waters, pasteurised Beer fermentation broth.	BS 101 , BS 102, BS 103, BS 115
Water Based Adhesives	Process waters, raw materials, finished product	BS 101, BS 103, BS 115
Oil and Petroleum	Injection waters, fuel (petrol, aviation)	BS 101, BS 103, BS 115
Fisheries	Ponds, Sea water, Processed products	BS 102, BS PP 2, BS PP 3, BS PP4

**BS 101** - Yeasts & Fungi + TBC **BS 102** - Escherichia coli + TBC **BS 103** - Pseudomonas + TBC **BS 115** - SRB **BS 125** - Algae Species  
**BS PP1** - Iron Bacteria **BS PP 2** - Salmonella Species **BS PP 3** - Staphylococcus Species **BS PP 4** - Vibrio Species. **BS130** : Nitrifying/Denitrifying Bacteria

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