

THE TEST

Full instructions for the use of BART™ biotectors are included with your purchase. Each individual test consists of:

Test vial with media and BART™ ball,
Outer tube for spill containment, odor control, and disposal.

Each BART™ test is color coded for quick and easy recognition:

RED - Iron Related Bacteria - IRB-BART™

BLACK - Sulfate Reducing Bacteria -
SRB-BART™

BLUE - Heterotrophic Aerobic Bacteria -
HAB-BART™

LIME GREEN - Slime Forming Bacteria -
SLYM-BART™

DARK GREEN - Micro-Algae -
ALGE-BART™

YELLOW - Fluorescent Pseudomonas -
FLOR-BART™

GREY - Denitrifying Bacteria - DN-BART™

WHITE - Nitrifying Bacteria - N-BART™

PURPLE - Acid Producing Bacteria -
APB-BART™

IN DEVELOPMENT

BART-READER™ - Computer Assisted BART™ system; an automated system to provide enhanced information and also for extensive BART™ use.

COLI-BART™ - A simple 24 hour test for determining Total and Fecal Coliform Bacteria.

BOD-BART™ - An easy 24 hour test for BOD.

DEFINE THE PROBLEM - IMPLEMENT THE SOLUTION.

SIMPLE!

Establish control and management. Only when the type and extent of the bacteria is defined can proper treatment of your problem begin. BART™ testers are a valuable tool for diagnosis and management. They are simple to use, require no elaborate or costly equipment, and no specialized training. They are effective and affordable.

BART™s are also available in the more economical laboratory format (LAB-BART™).

BART™ testers are patented products manufactured by:

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U.S. Patent #4,906,566



DBI

Droycon Bioconcepts Inc.

BART™

Biological
Activity
Reaction
Tests

A simple yet effective method for monitoring the population size and/or activity of specific groups of bacteria.



Originally designed for the diagnosis of biofouled wells, BART™ now has many other applications, including:

- Cooling Towers and Heat Exchangers,
- Drinking-Water Well Drilling,
- Farms and Private Wells,
- Hazardous Waste Treatment Facilities,
- Municipal Water Treatment (Drinking and Waste waters)
- Petroleum: Oil Field Drilling and Refining,
- Pools and Spas,
- Power Plant Utilities,
- Process Water (Manufacturing),
- Pulp and Paper Plants.

TYPES OF BART™ TESTERS

With BART™, you can monitor for Iron Related Bacteria (IRB), Sulfate Reducing Bacteria (SRB), and Heterotrophic Aerobic Bacteria (HAB) - the three most important agents involved in biofouling. These bacteria can cause corrosion, clogging, fouling of the water, and increased hygiene risks, so it is important to have an easy and accurate method of determining their presence and level of activity.

HOW THE BART™ TEST WORKS

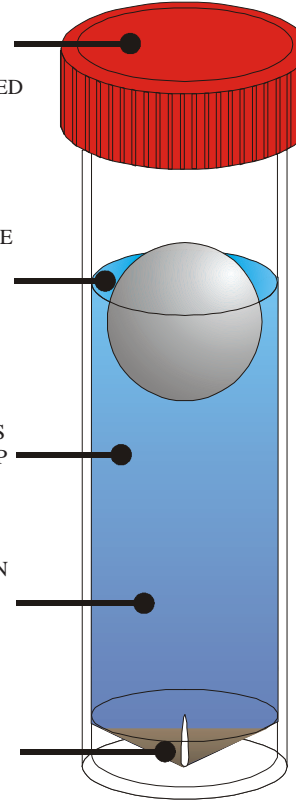
THE SCREW CAP SHOULD BE TIGHTENED ON THE BART TUBE SO THAT CASUAL LEAKAGE CAN BE PREVENTED IN THE CASE OF THE TUBE.

AEROBIC GROWTH OF BACTERIA WILL OCCUR AT THE SURFACE OF THE SAMPLE BETWEEN THE BART-BALL AND THE WALL OF THE BART™ TUBE.

FIFTEEN mL OF WATER SAMPLE IS USED TO BRING THE BART- BALL UP TO THE CORRECT LEVEL. NUTRIENTS WILL GRADUALLY DIFFUSE UP THE WATER COLUMN TO SUPPORT THIS BACTERIAL GROWTH.

ONCE THE OXYGEN HAS BEEN USED BY THE AEROBES, THIS ZONE BECOMES FREE OF OXYGEN AND ANAEROBIC GROWTH WILL DOMINATE.

NUTRIENT MEDIUM FOR GROWTH IS PROVIDED AS A STERILE DRIED PELLETT ON THE FLOOR OF THE TUBE. DO NOT SHAKE.



- EASY TO READ
- CAN DO THE TESTS IN THE FIELD
- GIVES BACTERIAL AGGRESSIVITY

EASY TO USE

The BART™ tester requires no microscope, no laboratory, no incubator! The test is done at room temperature in your office or treatment room, on a desk, shelf, or in a cupboard and is viewed daily. Different microorganisms like to grow at various heights in a column of water to which nutrients have been added. BART™ testers contain nutrients in the base of the column and a ball. The ball restricts the amount of oxygen entering the water column so that aerobic organisms grow around the ball and anaerobic organisms grow deep down in the water column. By changing the nutrients in the base of the column different organisms can be encouraged to grow. BART™ determines presence and activity levels.

EASY TO ANALYZE

The time taken for a color change (reaction) to occur gives a measure of the population size and activity. A color change occurs in the BART™ tube as a result of the oxygen gradient diffusing from the bottom upward. The change of color indicates a presence of bacteria within that sample. Interpretation information is provided with the kit.

Control, Maintenance, and Management