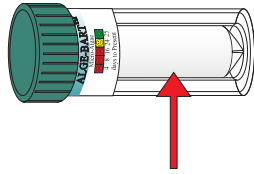


BART™ TEST FOR ALGAE MICRO-ALGAE

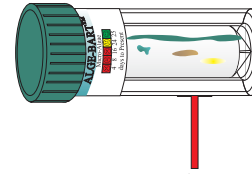
Present/Absent - observe a minimum 3 times a week.

ABSENT
(Negative - Non-aggressive)



Textile remains
White.

PRESENT
(Positive - Aggressive)



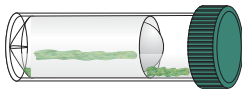
Growth on
textile.

1. View test a minimum 3 times a week for 24 days.
2. Observe any growths/color changes.
3. Compare with descriptions below.

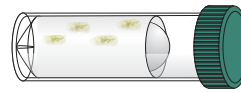
**Note: Refer to page bottom for approximate population*

Advanced test information.

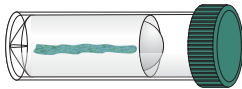
Determination of Dominant Bacteria



GREEN(GG) growth at or
below water line -
Chlamydomonas.



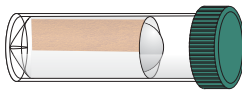
LIGHT YELLOW to
BEIGE(YB) patches of growth
on textile - *Scenedesmus*.



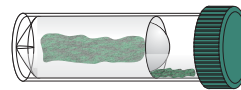
BRIGHT GREEN
FUZZY(FG) patches of
growth on textile -
Chlorophyceae.



GREEN(GF) deposits floating
in water and on floor of test -
Chlorella.



RED, ORANGE, or
BROWN(OB) patches of
growth on textile - *Diatoms &*
Desmids.



**DARK-GREEN, BLUE-
GREEN, or BLACK(DG)**
growths at water line - Blue-
green Algae
(*Cyanobacter*).

Determination of Potential ALGAE Population - observe daily for reaction.

Days to reaction - Approximate ALGAE Population (cfu/mL)



2 - 155,000
3 - 105,000
4 - 72,000
5 - 50,000
6 - 34,000
7 - 23,000



9 - 11,000
11 - 5000
13 - 2400
15 - 1100
17 - 540
19 - 250

Aggressive



20 - 175
21 - 120
22 - 80
23 - 55
24 - 40

Moderate



25 - 25
26 - <20

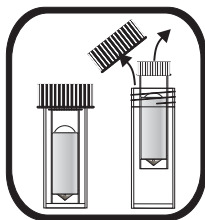
Not Aggressive

ALGE-BART™

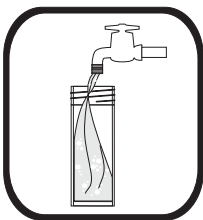
For water and soils

The ALGE-BARTs contain a ball, dehydrated medium, and geo-textile. Add water sample until the water reaches the top of the textile. Below the ball, there is a layer of textile into which the algae can grow. Nutrients to support algal growth diffuse into the water sample from dehydrated medium deposits in the base of the tube.

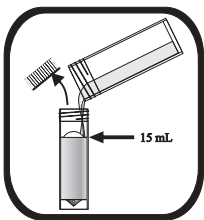
Algae include various plant-like microorganisms, which can photosynthesize using light as the energy source for growth. Several types of algae can grow in the ALGE-BARTs, including: Grass-Green Algae (*Chlorophyceae*), Blue-Green Algae (*Cyanobacteria*), Desmids, Diatoms, and Euglenoids. The ALGE-BART can be used as a simple presence/absence (P/A) test capable of indicating, to some extent, the population size and the types of algae present in the sample.



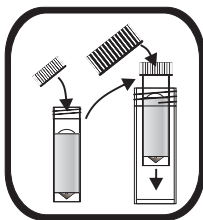
1. Remove the inner tube from the outer tube.



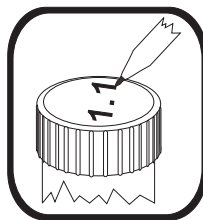
2. Using the outer tube from the BART, or a different sterile container, collect at least 20 mL of sample. **Note:** Do not touch or contaminate the inside of the tube or lid. Use aseptic technique.



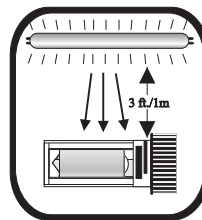
3. Fill the inner tube with sample until the level reaches the fill line. **Note:** After removing the cap from the inner tube, set it down directly on a clean surface. To avoid contamination, do not invert the cap.



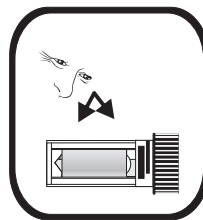
4. Tightly screw the cap back on the inner tube. Return the inner tube to the outer tube and screw the outer cap on tightly. DO NOT SHAKE OR SWIRL THE TUBE.



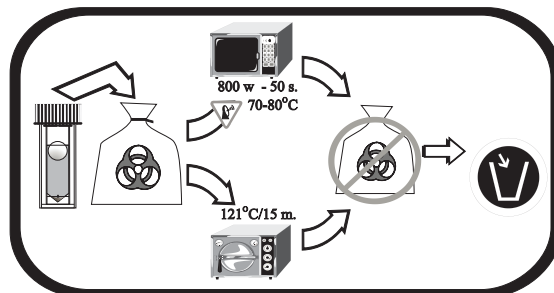
5. Label the outer tube with the date and sample origin.



6. Illuminate the BART tube using fluorescent lighting (1-40 watt bulb at 3 feet or 1 meter) and allow to incubate at room temperature.



7. Check the BART visually for reaction daily.



8. Safely dispose using a dedicated microwave oven or by autoclave.

Certificate of Analysis

This certificate confirms that the BART™ product listed by name, lot number, and batch number has been subjected to the full range of Quality Control procedures as outlined in "User Quality Control Manual in support of the BART Biodetection Technologies" published in 2002 by Droycon Bioconcepts Inc.

BART™ Type: ALGE-BART

Batch #:

Release date*:

Lot#:

Shipment date:

Expiry date:

* Approval for release includes the following criteria: 1. confirmation of sterility for the vials and caps, 2. approval of the medium as being appropriately formed and acceptable, 3. is sterile, and 4. responds in a typical way to inoculation and incubation using selected defined microbial cultures. Details of these criteria are included in our Web Site.

This certificate confirms that the batch of the BART™ biodetectors listed have satisfactorily passed the QC screening procedures and were approved for release on the date given above

Certificate Number:

This certificate was issued by Droycon Bioconcepts Inc., 315 Dewdney Ave., Regina, SK., Canada, S4N 0E7 as an assurance that the product listed above has passed through the quality control procedures considered essential to the successful use of the testing device.



ISO 9001:2000
Compliant

For more information, visit our web-site at:
<http://www.DBI.ca>