

# RTB-1

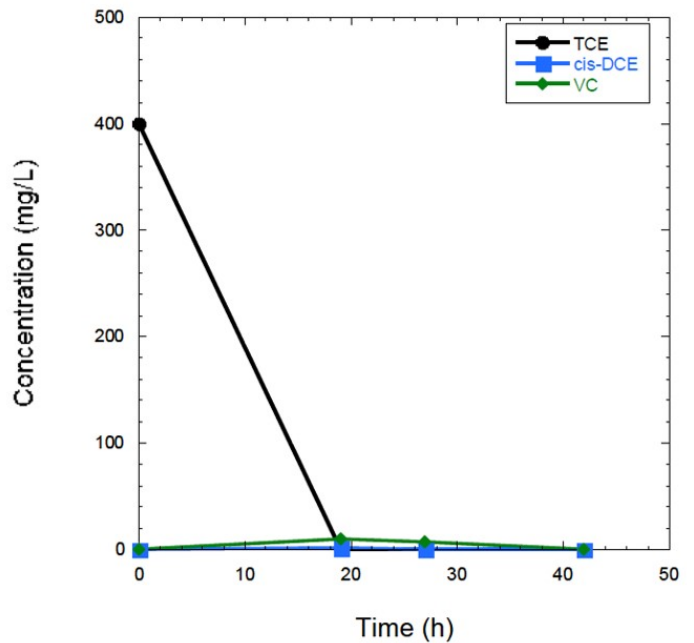
A microbial consortium of *Dehalococcoides mccartyi* enriched to degrade PCE and TCE completely to ethene

Enriched bioaugmentation culture capable of degrading chlorinated solvents to innocuous compounds via halo-respiration

## Product Advantages

- High cell concentration:  $10^{11}$  Cells/L
- Direct injection for in situ treatment of chlorinated ethenes
- Degrades: PCE, TCE, cis & trans-DCE, VC, Freon 113, mixed plumes containing 1,1,1-TCA & 1,1,2-TCA, dichloroethane isomers, CT, chloroform, and bromine compounds

Degradation rate of RTB-1 at 25°C



Redox Tech





## Description

RTB-1 is an enriched bioaugmentation culture capable of degrading chlorinated solvents to innocuous compounds efficiently via halorespiration.

Applications:

- Direct injection for *in situ* treatment of chlorinated ethenes
- Inoculation of on-site bioreactors
- Degrades: tetrachloroethylene (PCE), trichloroethene, (TCE), dichloroethene isomers (cis & trans-DCE), vinyl chloride (VC), Freon 113, mixed plumes containing trichloroethane (1,1,1-TCA & 1,1,2-TCA), dichloroethane isomers, carbon tetrachloride (CT), chloroform, and bromine compounds (carbon tetrabromide, bromoform, ethylene dibromide (EDB) and bromoethane)

## Chemical & Physical Properties

Bioaugmentation Culture: RTB-1

Microbial consortium including  
*Dehalococcoides mccartyi* (primary organism)  
*Dehalobacter spp.*  
*Desulfitobacterium spp.*  
*Dehalobium chlorocoercia*

Typical  
10<sup>11</sup> Cells/L

## Packaging

Shipped in 19 liter pressurized soda keg. Orders greater than 19 liters are concentrated up to 10-fold to significantly reduce shipping and supply costs for your project. Actual volumes and concentration factor will be written on a hang tag attached with the keg.

## Handling & Storage

RTB-1 is shipped overnight direct to your site in a chilled cooler. Your RTB-1 delivery includes: instruction manual, delivery cylinder (request 1, 2 or 3.5 liter) with quick connects and ¼" ID tubing hose barbs. An inert gas (Nitrogen or Argon) cylinder, regulator, and additional tubing to reach the injection point are required but not included.

RTB-1 must be stored at 4°C (40°F) and can remain usable for up-to three weeks from delivery.