

Microbe v. Microbe

How do I compare the strength and density of microbial products?

To help you compare apples to apples (microbes to microbes) we provide two examples to demonstrate the strength, density and high concentration of OBI products when compared to other microbial products.

Product Name	Density and Strength	Comments
The Oppenheimer Formula	100 billion microbes per gm/ml (10^{11})	You would need to dilute the Oppenheimer Formula 1,000 times to get the microbial count down to 10^8 , the same as Product X.
Product X	100 million microbes per gm/ml (10^8)	

Product Name	Density and Strength	Comments
The Oppenheimer Formula	100 billion microbes per gm/ml (10^{11})	You would need to dilute the Oppenheimer Formula 100 times to get the microbial count down to 10^9 , the same as Product Y.
Product Y	10 billion microbes per gm/ml (10^9)	

Facts To Think About

Oppenheimer Biotechnology manufactures the best microbial products in the world. The greatest difference between Oppenheimer products and those of our competitors is that our products are not made of “bacteria” but a more primitive microbe group called “Archaea”. Both are microorganisms and formerly were lumped in the same group, but these microbes have since been given their own separate id. Bacteria usually work under narrow conditions and will only work on one specific contaminant. Archaea are primitive and can tolerate much harsher environmental conditions and degrade a variety of hydrocarbons.

- Concentrations vary in density and strength. The strongest product being The Oppenheimer Formula I at 100 billion microbes per gram (10^{11}) to lowest BioZorb at 100 million microbes per gram (10^8).

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Things to Think About (Cont.)

- We manufacture dry products in highly concentrated formulas, allowing you to add water at your convenience.
- OBI microbes are highly effective – review some of our completed projects.
- OBI microbes are available immediately upon activation – no pre-activation or waiting with the products.
- No special equipment is necessary for our microbe application.
- The product line is cost effective saving you money at every phase (shipping, containers, effectiveness, and time).
- Our products have a long shelf life (5 years+); however, we hope you use them before then.
- Are you dealing with the actual manufacturer or just a reseller? OBI is the actual manufacturer. We can produce in bulk.
- Density and Strength – How many microbes per gram/ml are in the product? Are you comparing apples to apples?
- Is it a liquid or dry product? Why pay to ship water?
- What is the shelf-life? As a rule, dry microbes have a far longer shelf-life than liquid microbes.
- Do you have to measure and mix several messy products together? OBI microbes arrive ready to immediately go to work.
- Does your non-OBI product require costly special equipment? Once again ask yourself, “Why is special equipment required?”
- Do you have to wait 24-48 hours for microbes to grow? What exactly are you growing? Why are you waiting? Time is money.
- Government Approvals – Do they have the necessary approvals on a federal and state level?

The Oppenheimer Formula® is on the U.S. Environmental Protection Agency's NCP Product Schedule. This listing does NOT mean that EPA approves, recommends, licenses, certifies, or authorizes the use of The Oppenheimer Formula® on an oil discharge. This listing means only that data have been submitted to EPA as required by subpart J of the National Contingency Plan, Sec. 300.915

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