

SOLE CARBON & ENERGY SOURCE TESTING

MEDIA-BASED ENZYME & GROWTH FACTOR TESTING

401 BIOCHEMICAL TESTING ARRAY

strains=1
Ben | Able to grow on **benzene** as a sole carbon and energy source.

strains=1
Tol | Able to grow on **toluene** as a sole carbon and energy source.

strains=1
Eth | Able to grow on **ethylbenzene** as a sole carbon and energy source.

Nap strains=4 | Able to grow on **naphthalene** as a sole carbon and energy source.

strains=2
Dies | Able to grow on **diesel** fuel.

Paraff strains=2 | Able to grow on paraffin.

Sulfo strains=1 | Able to grow on **sulfolane** as a sole carbon and energy source.

strains=4 | Lim Able to grow on **limonene** as a sole carbon and energy source.

strains=7

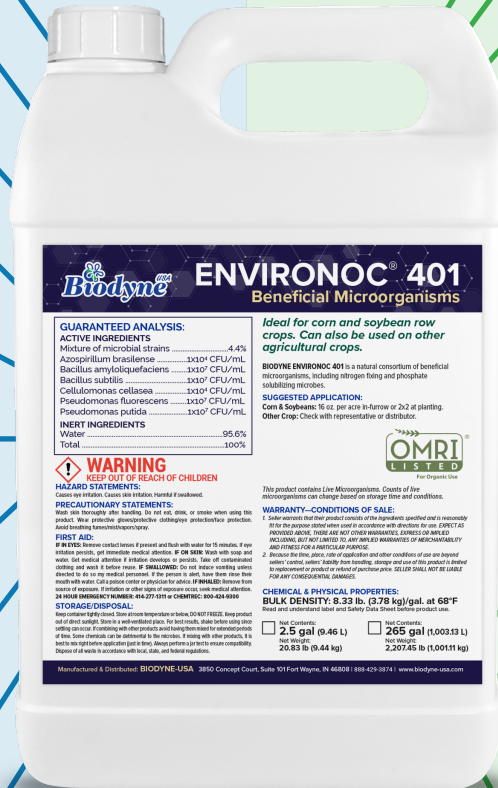
Cit

Able to grow on **citronellol** as a sole carbon and energy source.

strains=6
Ger | Able to grow on **geraniol** as a sole carbon and energy source.

strains=1

Phe | Able to grow on **phenol** as a sole carbon and energy source.



Pro strains=11 Produce **proteinase** enzymes that can reduce proteins to their amino acid components.

Star strains=13
Able to produce the enzyme **amylase** to reduce starch to its monosaccharide subunits.

Sier strains=4 Produce **lipase and esterase** enzymes to disassemble and degrade lipids.

strains=3
Lip Produce **lipase** enzymes that can separate lipids into their fatty acid subunits.

Phos strains=6 Demonstrates the ability to solubilize insoluble forms of **phosphate**.

IAA (strains=7) Produces the hormone **indole acetic acid**.

strains=11

Cellu Produce **cellulase** enzyme that can break down cellulose into its monosaccharide units.

Chitin strains=8 Produce **chitinase** enzyme that breaks down chitin into its n-acetyl glucosamine subunits.

strains=7

N₂ Identifies **diazotrophs** with the ability to fix atmospheric nitrogen into ammonia.

Sider strains=3 Produce iron-chelating siderophore compounds.

Ammon strains=15 Identifies ammonifying organisms that can release **ammonia** from organic molecules .

Urease strains=6 Produce the **urease** enzyme that breaks down urea into ammonia and CO₂.

Sox strains=1 Can convert (oxidize) insoluble, unavailable Sulfur into more available forms.

ACC strains=5 Able to degrade **1-aminocyclopropane-1-carboxylic acid**, a precursor to ethylene formation which may have an impact on stress in plants.

strains=7
ACE Produces the volatile compound **acetoin** which has been implicated in enhanced plant growth and inducing systemic resistance in plants against pathogens.

K Demonstrates the ability to solubilize insoluble forms of **potassium**.

strains=2
Zn Demonstrates the ability to solubilize insoluble forms of **zinc**.