

SOLE CARBON & ENERGY SOURCE TESTING

RAPIDS[®] TESTING ARRAY

MEDIA-BASED ENZYME & GROWTH FACTOR TESTING

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

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

Eth ^{strains=1}
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.

Dies ^{strains=2}
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.

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

Cit ^{strains=7}
Able to grow on **citronellol** as a sole carbon and energy source.

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

Phe ^{strains=1}
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.

Lip ^{strains=3}
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**.

Cellu ^{strains=11}
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.

N₂ ^{strains=7}
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.

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

K ^{strains=5}
Demonstrates the ability to solubilize insoluble forms of **potassium**.

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