

SOLE CARBON & ENERGY SOURCE TESTING

MEDIA-BASED ENZYME & GROWTH FACTOR TESTING

501 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.

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

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

strains=3
Dies | Able to grow on **diesel fuel**.

strains=3
Paraff | Able to grow on **paraffin**.

strains=5
Lim | Able to grow on **limonene** as a sole carbon and energy source.

strains=8
Cit | Able to grow on **citronellol** as a sole carbon and energy source.

strains=8
Ger | Able to grow on **geraniol** as a sole carbon and energy source.

strains=2
Phe | Able to grow on **phenol** as a sole carbon and energy source.



strains=14
Pro | Produce **proteinase** enzymes that can reduce proteins to their amino acid components.

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

strains=6
Sier | Produce **lipase and esterase** enzymes to disassemble and degrade lipids.

strains=4
Lip | Produce **lipase** enzymes that can separate lipids into their fatty acid subunits.

strains=3
Phos | Demonstrates the ability to solubilize insoluble forms of **phosphate**.

strains=1
IAA | Produces the hormone **indole acetic acid**.

strains=2
Ligin | Able to produce **ligin modifying enzymes** to break down lignin into smaller subunits.

strains=16
Cellu | Produce **cellulase** enzyme that can break down cellulose into its monosaccharide units.

strains=10
Chitin | Produce **chitinase** enzyme that breaks down chitin into its n-acetyl glucosamine subunits.

strains=2
N₂ | Identifies **diazotrophs** with the ability to fix atmospheric nitrogen into ammonia.

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

strains=5
Urease | Produce the **urease** enzyme that breaks down urea into ammonia and CO₂.

strains=4
ACC | Able to degrade **1-aminocyclopropane-1-carboxylic acid**, a precursor to ethylene formation which may have an impact on stress in plants.

strains=10
ACE | Produces the volatile compound **acetoin** which has been implicated in enhanced plant growth and inducing systemic resistance in plants against pathogens.

strains=2
K | Demonstrates the ability to solubilize insoluble forms of **potassium**.

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