

Bacillus subtilis

Cat #: BGT-STD-100

Size: Freeze-dried / powder / slant / plate

Product Information

Usage:

Used for research in environmental sewage treatment.

Morphology:

Colony diameter is 1-2mm, circular, with irregular edges, non-transparent, grayish-white on the front, flat in shape, dull gray surface, rough texture, dry consistency, Gram-positive (violet-blue), *bacillus*.

Bacillus subtilis Basic Information

Medium Composition: Peptone: 10.0, Beef Extract: 3.0, Sodium Chloride: 5.0, Agar: 15.0, pH value: 7.3±0.1 (25°C)

Growth Conditions: 30°C; 18-24 hours; Aerobic

Growth Characteristics: Gram-positive (G+), colonies are circular, flat, rough surface, opaque, irregular edges, wrinkled, endospore forming, flagella peritrichous, aerobic, motile, positive for catalase and oxidase. Utilizes glucose, xylose, and mannitol to produce acid, reduces litmus milk. Utilizes pectin, citrate, does not utilize propionate, hydrolyzes starch, casein, and gelatin liquefaction.

Storage Conditions: 2-8°C

Safety Level: 1

Morphology: Colony diameter of 1-2mm, circular, irregular edges, opaque, gray-white on the front, flat shape, dull gray surface, rough surface texture, dry consistency, G+ (violet-blue), *bacillus*

Isolation Source: Activated Sludge.

Type Strain: No

Operational Steps: ① Prepare a test tube containing 5-10mL of liquid medium and two petri dishes; ②

Open in a safety cabinet, sterilize the top with a Bunsen burner, quickly drop sterile water to cause it to

break, then crush it with tweezers; ③ Draw 0.5mL of liquid medium into the lyophilized tube, dissolve it thoroughly, and then draw it back into the liquid test tube, mix well; ④ Draw 0.2mL of bacterial suspension into the petri dish, spread evenly, repeat twice to obtain two petri dishes; ⑤ Place the liquid test tube and petri dishes under the aforementioned culture conditions, and the strain can be used once it grows.

Application Field: Research on environmental sewage treatment

Sharing Method: Public welfare sharing

Disclaimer

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.