**Product Information Sheet for NR-36439**

**Paenibacillus barengoltzii, Strain G22**

**Catalog No. NR-36439**

For research use only. Not for human use.

**Contributor:**
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**Manufacturer:**
BEI Resources

**Product Description:**
Bacteria Classification: **Paenibacillaceae, Paenibacillus**
Species: **Paenibacillus barengoltzii**
Strain: G22
Original Source: **Paenibacillus barengoltzii** (P. barengoltzii), strain G22 was isolated from mouse intestine in the United States.\(^1\)

Comments: The complete genome of **P. barengoltzii**, strain G22 has been sequenced (GenBank: **ASSZ00000000**).

\(^1\) P. barengoltzii is a Gram-positive, strictly aerobic, spore-forming, rod-shaped bacterium that is motile by means of peritrichous flagella.\(^2\) Strains of **P. barengoltzii** have been isolated from geothermal regions, spacecraft assembly equipment and human clinical samples.\(^2,3\) **P. barengoltzii** enzymes may have relevance as insecticides and for food production.\(^4-7\)

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in Nutrient broth supplemented with 10% glycerol.

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**
NR-36439 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

**Media:** Nutrient broth or equivalent

**Nutrient agar or equivalent**

**Incubation:**

**Temperature:** 30°C

**Atmosphere:** Aerobic

**Propagation:**
1. Keep vial frozen until ready for use; then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tubes and plate at 30°C for 2 to 3 days.

**Citation:**
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: **Paenibacillus barengoltzii**, Strain G22, NR-36439."

**Biosafety Level:** 1


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**References:**
2. Osman, S., M. Satomi and K. Venkateswaran. "**Paenibacillus pasadenensis** sp. nov. and **Paenibacillus**


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