

Bacteriophage JBD23, Infectious for *Pseudomonas aeruginosa*

Catalog No. HM-600

Product Description: Bacteriophage JBD23 was isolated from a diverse panel of clinical and environmental isolates of *Pseudomonas aeruginosa* (*P. aeruginosa*) by inducing resident prophages. Bacteriophage JBD23 (HMP ID 9844) is a reference genome for the Human Microbiome Project (HMP).

Lot^{1,2}: 70016910

Manufacturing Date: 09AUG2018

| TEST | SPECIFICATIONS | RESULTS |
|---|-----------------------------|-----------------------------------|
| Plaque Morphology³ | Report results | Clear, hazy edge |
| Titer (Post-vial) Plaque-forming units (pfu) with <i>P. aeruginosa</i> ⁴ | >10 ⁶ pfu per mL | 4.2 × 10 ¹⁰ pfu per mL |
| Sterility | 0.22 µm filtered | 0.22 µm filtered |
| Bacterial Inactivation 10% of total yield plated on Tryptic Soy agar ⁵ | No viable bacteria detected | No viable bacteria detected |

¹Quality control of HMP material is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material. It should not be considered a complete characterization of the deposited organism.

²HM-600 lot 70016910 was produced by inoculation of BEI Resources HMS-600 lot 59810282 into a LB soft agar overlay (0.7%) supplemented with 10 mM MgSO₄ containing the phage host, *Pseudomonas aeruginosa*, strain PA14. The soft agar overlay was added to a LB agar kolle supplemented with 10 mM MgSO₄ and incubated 1 day at 30°C in an aerobic atmosphere. After two additional passages, the phage was harvested to produce this lot and is provided in LB broth supplemented with 10 mM MgSO₄ and 10% glycerol. The harvested material was stored at 4°C in an aerobic atmosphere for 23 days prior to cryopreservation.

³Lysis was observed after 1 day at 30°C in an aerobic atmosphere on a LB soft agar overlay supplemented with 10 mM MgSO₄ containing the phage host.

⁴100 µL of a 1:10⁸ dilution in a LB soft agar overlay supplemented with 10 mM MgSO₄ containing the phage host

⁵14 days at 37°C in an aerobic atmosphere

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Program Manager or designee, ATCC Federal Solutions

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