Staphylococcus aureus Fluorescent Reporter Plasmid pSGFPS1, Recombinant in Staphylococcus aureus

Catalog No. NR-51163

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
NR-51163 is a glycerol stock of Staphylococcus aureus (S. aureus), strain RN4220 containing the green fluorescent protein (GFP) reporter plasmid pSGFPS1, a derivative of the Escherichia coli (E. coli) - staphylococcal shuttle vector pKK30.1,2

Plasmid pKK30 is a member of a set of shuttle vectors that retain stability over a number of generations in vitro and in vivo in Staphylococcus species without antibiotic selection, making them a powerful genetic tool. pKK30 contains the P universally promoter cassette, a blaZ transcriptional terminator (blaZTT), a plasmid single stranded origin (ss0) required for plasmid replication, a double stranded origin (ds0) required for plasmid maintenance in the absence of antibiotic selection, a repF gene encoding for the S. aureus Rep protein and the E. coli R6Kγ replication origin. pKK30 lacks the four predicted USA300-specific open reading frames allowing for use of pKK30 in non-USA300 isolates.3

The complete sequence and vector map of pSGFPS1 are available on the Certificate of Analysis for NR-51163 lot 700010748 and the vector sequence of pSGFPS1 is also available from GenBank: (MF769790).

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth containing 10 µg/mL trimethoprim supplemented with 25% glycerol.

Packaging/Storage:
NR-51163 was packaged aseptically in 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:
Tryptic Soy broth containing 10 µg/mL trimethoprim
Tryptic Soy agar containing 10 µg/mL trimethoprim

Incubation:
Temperature: 37°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 tube, slant and/or plate at 37°C for 1 day.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Staphylococcus aureus Fluorescent Reporter Plasmid pSGFPS1, Recombinant in Staphylococcus aureus, NR-51163.”

Biosafety Level: 2


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References:

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