Antimicrobial Resistance Panel 8: *Pseudomonas aeruginosa* LpxC Inhibitor Resistant Mutants

Catalog No. NR-55647

Product Description:

NR-55647 consists of a 16-member panel of *Pseudomonas aeruginosa* (*P. aeruginosa*) strains containing mutations in the genes involved in the LpxC pathway. These strains were generated by selection on a growth medium containing an LpxC inhibitor or by introducing targeted mutations in the gene of interest.

The kit components were produced by inoculation of the deposited material into Tryptic Soy broth and grown for 1 day at 37°C in an aerobic atmosphere. Broth inoculums were added to Tryptic Soy agar kolles, which were grown for 1 day at 37°C in an aerobic atmosphere to produce the individual lots. Quality control testing was completed under propagation conditions unless otherwise noted.

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Table 1: Kit Components

COMPONENT NUMBER	STRAIN	LOT NUMBER	MANUFACTURING DATE
NR-51885	*P. aeruginosa,* NB52019-CDA0033	70046530	18AUG2021
NR-51886	*P. aeruginosa,* NB52019-LpxC$_{G208S}$	70046531	12AUG2021
NR-51887	*P. aeruginosa,* NB52019-CDJ0037	70048189	21OCT2021
NR-51888	*P. aeruginosa,* NB52217-P2	70046527	13AUG2021
NR-51889	*P. aeruginosa,* NB52217-P6	70046528	18AUG2021
NR-51890	*P. aeruginosa,* NB52217-P13	70046526	13AUG2021
NR-51891	*P. aeruginosa,* NB52217-PA4465$_{N193T}$	70046529	13AUG2021
NR-51892	*P. aeruginosa,* NB52200-P6a (NC)	70046524	12AUG2021
NR-51893	*P. aeruginosa,* NB52200-P6b (SC)	70046525	13AUG2021
NR-51894	*P. aeruginosa,* NB52200-P13a (NC)	70046522	12AUG2021
NR-51895	*P. aeruginosa,* NB52200-P13b (SC)	70046523	12AUG2021
NR-51896	*P. aeruginosa,* NB52042-CDJ0042	70046532	13AUG2021
NR-51898	*P. aeruginosa,* NB52019-CDR0026	70046513	12AUG2021
NR-51899	*P. aeruginosa,* NB52019-CDR0061	70046514	18AUG2021
NR-51900	*P. aeruginosa,* NB52019-CDJ0011	70046516	13AUG2021
NR-51902	*P. aeruginosa,* NB52203-CDB0011	70048425	03NOV2021

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Table 2: *Pseudomonas aeruginosa*, Strain NB52019-CDA0033 (NR-51885)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips		
1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	≥ 256 µg/mL
Ofloxacin	Report results	≥ 32 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze)	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
7 days at 37°C in an aerobic atmosphere with and without 5%CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood		
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

Table 3: *Pseudomonas aeruginosa*, Strain NB52019-LpxC$_{G208S}$ (NR-51886)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips		
1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	32 µg/mL
Ofloxacin	Report results	1.5 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze)	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
7 days at 37°C in an aerobic atmosphere with and without 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood		
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

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Table 4: *Pseudomonas aeruginosa*, Strain NB52019-CDJ0037 (NR-51887)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Irregular, low convex, undulate, rough and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	64 µg/mL
Ofloxacin	Report results	1.0 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.2%)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with and without 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

Table 5: *Pseudomonas aeruginosa*, Strain NB52217-P2 (NR-51888)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	256 µg/mL
Ofloxacin	Report results	3 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

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Table 6: *Pseudomonas aeruginosa*, Strain NB52217-P6 (NR-51889)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	≥ 256 µg/mL
Ofloxacin	Report results	12 to 16 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with and without 5% CO_2 on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

Table 7: *Pseudomonas aeruginosa*, Strain NB52217-P13 (NR-51890)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, low convex, entire, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	> 256 µg/mL
Ofloxacin	Report results	> 32 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with and without 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

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Table 8: *Pseudomonas aeruginosa*, Strain NB52217-PA4465$_{N193T}$ (NR-51891)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips		
1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	128 µg/mL
Ofloxacin	Report results	2 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze)	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
7 days at 37°C in an aerobic atmosphere with and without 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood		
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

Table 9: *Pseudomonas aeruginosa*, Strain NB52200-P6a (NC) (NR-51892)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips		
1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	2 µg/mL
Ofloxacin	Report results	0.064 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.4%)
Purity (post-freeze)	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
7 days at 37°C in an aerobic atmosphere with and without 5%CO_2 on Tryptic Soy agar		
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

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Table 10: *Pseudomonas aeruginosa*, Strain NB52200-P6b (SC) (NR-51893)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	1.5 to 2 µg/mL
Ofloxacin	Report results	0.047 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with and without 5% CO_2 on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

Table 11: *Pseudomonas aeruginosa*, Strain NB52200-P13a (NC) (NR-51894)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, low convex, entire, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	8 µg/mL
Ofloxacin	Report results	0.047 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with and without 5%CO_2 on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

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Table 12: *Pseudomonas aeruginosa*, Strain NB52200-P13b (SC) (NR-51895)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, convex, entire, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	2 to 3 µg/mL
Ofloxacin	Report results	0.006 to 0.008 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere with and without 5%CO_2 on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

Table 13: *Pseudomonas aeruginosa*, Strain NB52042-CDJ0042 (NR-51896)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Irregular, low convex, undulate, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips 1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	48 to 64 µg/mL
Ofloxacin	Report results	1.5 to 2 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze) 7 days at 37°C in an aerobic atmosphere on Tryptic Soy agar	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
7 days at 37°C in an aerobic atmosphere with 5%CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

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Table 14: *Pseudomonas aeruginosa*, Strain NB52019-CDR0026 (NR-51898)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Irregular, low convex, undulate, rough and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips		
1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	96 µg/mL
Ofloxacin	Report results	0.75 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze)	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
7 days at 37°C in an aerobic atmosphere with and without 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood		
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

Table 15: *Pseudomonas aeruginosa*, Strain NB52019-CDR0061 (NR-51899)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Irregular, convex, undulate, rough and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips		
1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	> 256 µg/mL
Ofloxacin	Report results	1 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze)	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
7 days at 37°C in an aerobic atmosphere with and without 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood		
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

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Table 16: *Pseudomonas aeruginosa*, Strain NB52019-CDJ0011 (NR-51900)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Circular, low convex, undulate, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips		
1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	48 µg/mL
Ofloxacin	Report results	1.5 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (95.3%)
Purity (post-freeze)	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
7 days at 37°C in an aerobic atmosphere with and without 5% CO_2 on Tryptic Soy agar with 5% defibrinated sheep blood		
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

Table 17: *Pseudomonas aeruginosa*, Strain NB52203-CDB0011 (NR-51902)

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-negative rods	Gram-negative rods
Colony morphology	Report results	Irregular, low convex, undulate, smooth and cream
Motility (wet mount)	Report results	Motile
VITEK® MS (MALDI-TOF)	*P. aeruginosa*	*P. aeruginosa* (99.9%)
Antibiotic Susceptibility Profile		
Etest® antibiotic test strips		
1 day at 35°C in an aerobic atmosphere on Mueller Hinton agar		
Chloramphenicol	Report results	> 256 µg/mL
Ofloxacin	Report results	1.5 µg/mL
Genotypic Analysis		
Confirmation of mutations	Mutations confirmed	Pending
Digital DNA-DNA hybridization (dDDH)[1]	≥ 70% for species identification	*P. aeruginosa* (90.5%)
Purity (post-freeze)	Growth consistent with expected colony morphology	Growth consistent with expected colony morphology
7 days at 37°C in an aerobic atmosphere with and without 5% CO_2 on Tryptic Soy agar		
Viability (post-freeze)	Growth	Growth

[1]Relatedness between bacterial strains has traditionally been determined using DDH. For additional information, refer to Auch, A. F., et al. "Digital DNA-DNA Hybridization for Microbial Species Delineation by Means of Genome-to-Genome Sequence Comparison." Stand. Genomic Sci. 2 (2010): 117-134. PubMed: 21304684.

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Certificate of Analysis for NR-55647

/Sonia Bjorum Brower/
Sonia Bjorum Brower 28 SEP 2023
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