

Bacillus subtilis variant *natto* Bacteremia of Gastrointestinal Origin, Japan

Appendix

Appendix Table. Minimum inhibitory concentrations of each antimicrobial agent and their interpretation against the *Bacillus subtilis* var. *natto* strains isolated from the patient*

Antimicrobial agent	MIC (µg/mL)	Interpretation†
Penicillin G	≤0.12	S
Ampicillin	≤0.06	S
Imipenem	≤1	S
Gentamicin	≤1	S
Erythromycin	≤0.25	S
Clindamycin	≤0.25	S
Levofloxacin	≤0.5	S

*MIC, minimum inhibitory concentration; S, susceptible; R, resistant.

†Interpretation (susceptible, intermediate, or resistant) was based on the Clinical and Laboratory Standards Institute criteria (M45).

The isolate	1	GTGTTTATCCTGACATTGTGATCGGCACCTTAAGCAAAGCTGTTGGTACGGAAGGAGGTT	60
<i>natto</i>	1	GTGTTTATCCTGACATTGTGATCGGCACCTTAAGCAAAGCTGTTGGTACGGAAGGAGGTT	60
The isolate	61	TTGCGGCTGGATCAGCGGTCTTCATCGACTTTTTGCTGAACCATGCCAGAACATTTATCT	120
<i>natto</i>	61	TTGCGGCTGGATCAGCGGTCTTCATCGACTTTTTGCTGAACCATGCCAGAACATTTATCT	120
The isolate	121	TTCAAACCGCTATTCGCCAGCCAGCTGTGCGGCTGCTCACGAGGCTTTCAACATCAGAA	180
<i>natto</i>	121	TTCAAACCGCTATTCGCCAGCCAGCTGTGCGGCTGCTCACGAGGCTTTCAACATCAGAA	180
The isolate	181	CCAGTTTGAAGAATATGGGTTATGTGGTGAAGGAGATCACACCCGATTATTCCTGTAG	240
<i>natto</i>	181	CCAGTTTGAAGAATATGGGTTATGTGGTGAAGGAGATCACACCCGATTATTCCTGTAG	240
The isolate	241	TCATTGGCGATGCCCATAAAACGGTCATATTTGCTGAAAACTGCAGGGCAAGGGAATTT	300
<i>natto</i>	241	TCATTGGCGATGCCCATAAAACGGTCATATTTGCTGAAAACTGCAGGGCAAGGGAATTT	300
The isolate	301	ATGCTCCTGCCATTCGGCCGCCGACCGTTGCGCCGGGTGAAAAG	343
<i>natto</i>	301	ATGCTCCTGCCATTCGGCCGCCGACCGTTGCGCCGGGTGAAAAG	343

Appendix Figure 1. The isolate showed 100% homology to *Bacillus subtilis* var. *natto* standard strain in the *bioF* sequence. *natto*, *Bacillus subtilis* var. *natto* standard strain.

The isolate	1	GTGTTTATCCTGACATTGTGATCGGCACCTTAAGCAAAGCTGTTGGTACGGAAGGAGGTT	60
<i>subtilis</i>	1	GTGTTTGTCTGACATTGTGATCGGCACCTTAAGCAAAGCTGTTGGCGCGAAGGAGGTT	60
The isolate	61	TTGCGGCTGGATCAGCGGTCTTCATCGACTTTTGTGAACCATGCCAGAACATTTATCT	120
<i>subtilis</i>	61	TTGCGGCAGGATCAGCGGTCTTCATCGACTTTTGTGAACCATGCCAGAACATTTATCT	120
The isolate	121	TTCAAACCGCTATTCCGCCAGCCAGCTGTGCGGCTGCTCACGAGGCTTTCAACATCA	177
<i>subtilis</i>	121	TTCAAACCGCTATTCCGCCAGCCAGCTGTGCGGCTGCTCACGAGGCTTTCAACATCA	177
The isolate	174	ATCAGAACCAGTTTGAAGAATATGGGTTATGTGGTAAAAGGAGATCACACCCGATTATT	233
<i>subtilis</i>	228	ATCAGAACCAGTCTGAAGAATATGGGTTATGTCGTAAAAGGAGATCACACCCGATTATT	287
The isolate	234	CCTGTAGTCATTGGCGATGCCATAAAACGGTCATATTTGCTGAAAACTGCAGGGCAAG	293
<i>subtilis</i>	288	CCCGTGGTCATTGGCGATGCCATAAAACGGTCCTATTTGCTGAAAACTGCAGGGCAAG	347
The isolate	294	GGAATTTATGCTCCTGCCATTCGGCCGCCGACCGTTGCGCCGGGTGAAAG	343
<i>subtilis</i>	348	GGAATTTTGTCTCCTGCCATTCGGCCGCCGACCGTTGCGCCAGGTGAAAG	397

Appendix Figure 2. The isolate showed a 50-nt deletion in the *bioF* sequence compared to *Bacillus subtilis* subsp. *subtilis* standard strain. *subtilis*, *Bacillus subtilis* subsp. *subtilis* standard strain.

The isolate	1	TGCGCTCGCTTCAAAGGTAAGCCGGCACCCGGCAGCCATTGCAGAATTATGCTGGTCCGA	60
<i>natto</i>	1	TGCGCTCGCTTCAAAGGTAAGCCGGCACCCGGCAGCCATTGCAGAATTATGCTGGTCCGA	60
The isolate	61	CGATCCGGATTACATAACAGGCTATGTTGCGGGTAAGAAAATGGGCTATCAGCGTATTAC	120
<i>natto</i>	61	CGATCCGGATTACATAACAGGCTATGTTGCGGGTAAGAAAATGGGCTATCAGCGTATTAC	120
The isolate	121	AGCAATGAAAGAATACGGGACTGAAGAGGGCTGACGAGTCTTTTTTATTGATGGATCCAA	180
<i>natto</i>	121	AGCAATGAAAGAATACGGGACTGAAGAGGGCTGACGAGTCTTTTTTATTGATGGATCCAA	180
The isolate	181	TGATGTAAACACGTACATACATGATCTGGAGAAGCAGCCTATTTTAATAGAGTGGGAGG	239
<i>natto</i>	181	TGATGTAAACACGTACATACATGATCTGGAGAAGCAGCCTATTTTAATAGAGTGGGAGG	239

Appendix Figure 3. The isolate showed 100% homology to *Bacillus subtilis* var. *natto* standard strain in the *bioW* sequence. *natto*, *Bacillus subtilis* var. *natto* standard strain.

