

Table S1. Physiological characteristics of isolated bacteria.

Strain	Taxonomic affiliation	Temperature, °C	pH	Maximum salt concentration, %				
				NaCl	KCl	MgSO ₄	NaHCO ₃	Mg(ClO ₄) ₂
KBP.AS.17	<i>Pseudarthrobacter oxydans</i>	25-37	7-12	20	20	20	15	15
KBP.AS.62	<i>Arthrobacter</i> sp.	10-45	4-12	20	20	20	2	15
KBP.AS.75	<i>Brachybacterium</i> sp.	10-25	6-12	20	20	20	20	10
KBP.AS.105	<i>Janthinobacterium</i> sp.	2-25	6-12	15	15	<2	<2	<0.5
KBP.AS.160	<i>Arthrobacter</i> sp.	2-45	3-12	20	20	20	20	15
KBP.AS.747	<i>Microbacterium aurantiacum</i>	25-25	3-12	15	15	20	<2	15
KBP.AS.748	<i>Pseudarthrobacter</i> sp.	25-50	7-11	<2	20	<2	<2	5
KBP.AS.749	<i>Brevibacterium frigiditolerans</i>	25-50	7-11	<2	20	15	<2	5
KBP.AS.750	<i>Planomicrobium okeanokoites</i>	25-37	7-12	15	15	20	<2	5
KBP.AS.751	<i>Agrococcus</i> sp.	25-37	7-12	20	20	20	2	<0.5
KBP.AS.752	<i>Agrococcus</i> sp.	2-50	7-11	<2	20	<2	<2	5
KBP.AS.753	<i>Agrococcus</i> sp.	25-37	7-11	<2	20	15	<2	<0.5
KBP.AS.754	<i>Kocuria</i> sp.	25-50	7-11	15	20	20	<2	1
KBP.AS.755	<i>Planomicrobium glaciei</i>	25-45	7-11	<2	20	15	<2	0.5
KBP.AS.756	<i>Leucobacter aridicollis</i>	25-50	7-11	<2	20	20	<2	5
KBP.AS.757	<i>Planomicrobium okeanokoites</i>	10-50	7-11	<2	20	15	<2	<0.5
KBP.AS.758	<i>Microbacterium</i> sp.	2-45	4-12	20	20	20	5	15
KBP.AS.759	<i>Bacillus pumilus</i>	2-45	4-12	20	20	20	5	15
KBP.AS.760	<i>Microbacterium</i> sp.	2-37	4-11	20	20	20	15	15
KBP.AS.761	<i>Rufibacter</i> sp.	25-25	7-11	15	15	<2	<2	<0.5
KBP.AS.762	<i>Microbacterium</i> sp.	25-37	7-11	<2	20	<2	<2	5
KBP.AS.763	<i>Massilia</i> sp.	25-25	7-12	<2	<2	20	<2	<0.5
KBP.AS.764	<i>Bacillus</i> sp.	2-50	7-11	15	20	20	<2	15
KBP.AS.765	<i>Massilia alkalitolerans</i>	2-50	7-11	<2	20	15	<2	5
KBP.AS.766	<i>Pseudarthrobacter</i> sp.	25-50	7-11	15	20	20	<2	15
KBP.AS.767	<i>Massilia varians</i>	10-37	7-11	15	20	20	<2	<0.5

KBP.AS.768	<i>Planomicrobium</i> sp.	2-37	7-11	20	20	15	15	15
KBP.AS.769	<i>Microbacterium pseudoresistens</i>	25-50	7-11	<2	20	20	<2	0.5
KBP.AS.770	<i>Arthrobacter</i> sp.	2-25	4-11	20	20	20	2	15
KBP.AS.771	<i>Arthrobacter</i> sp.	2-37	7-12	20	20	20	20	15
KBP.AS.772	<i>Planomicrobium glaciei</i>	10-37	6-12	15	20	20	<2	<0.5
KBP.AS.773	<i>Cellulomonas</i> sp.	2-37	7-12	20	20	20	20	15
KBP.AS.774	<i>Planomicrobium okeanokoites</i>	2-37	4-12	20	20	20	5	15
KBP.AS.775	<i>Planomicrobium okeanokoites</i>	10-37	6-12	15	20	20	<2	5
KBP.AS.776	<i>Georgenia</i> sp.	2-37	4-12	20	20	20	15	15
KBP.AS.777	<i>Microbacterium barkeri</i>	2-37	4-12	20	20	20	15	10
KBP.AS.778	<i>Salinibacterium</i> sp.	25-37	7-11	<2	15	<2	<2	<0.5
KBP.AS.779	<i>Brevibacterium frigiditolerans</i>	25-37	7-12	15	<2	20	<2	<0.5
KBP.AS.780	<i>Micrococcus</i> sp.	25-37	7-11	<2	20	20	15	<0.5
KBP.AS.781	<i>Kocuria</i> sp.	25-37	4-12	20	20	15	<2	15
KBP.AS.782	<i>Labeledella</i> sp.	25-25	7-11	<2	<2	<2	<2	<0.5
KBP.AS.783	<i>Plantibacter</i> sp.	10-45	6-12	20	20	20	<2	15
KBP.AS.784	<i>Arthrobacter agilis</i>	10-25	3-12	20	20	20	<2	15
KBP.AS.785	<i>Microbacterium</i> sp.	10-25	3-12	20	15	20	<2	15
KBP.AS.786	<i>Pseudarthrobacter</i> sp.	25-25	7-11	<2	<2	<2	15	15
KBP.AS.787	<i>Massilia</i> sp.	10-37	7-12	15	20	<2	<2	<0.5
KBP.AS.788	<i>Bacillus</i> sp.	2-25	6-12	15	15	20	<2	15
KBP.AS.789	<i>Burkholderia</i> sp.	10-45	4-12	15	20	20	<2	5
KBP.AS.790	<i>Cellulomonas hominis</i>	25-37	7-12	15	10	20	<2	5
KBP.AS.791	<i>Pseudarthrobacter</i> sp.	25-25	7-12	15	20	20	<2	10
KBP.AS.792	<i>Massilia</i> sp.	25-25	7-11	<2	<2	<2	15	10
KBP.AS.793	<i>Salinibacterium</i> sp.	10-45	4-12	15	20	20	15	15
KBP.AS.794	<i>Arthrobacter</i> sp.	10-25	6-12	5	2	20	<2	<0.5
KBP.AS.795	<i>Arthrobacter</i> sp.	2-37	4-11	20	20	20	20	15
KBP.AS.816	<i>Arthrobacter</i> sp.	25-25	7-11	<2	<2	<2	<2	15
KBP.AS.842	<i>Massilia</i> sp.	25-25	7-11	<2	<2	<2	<2	<0.5
KBP.AS.843	<i>Mycetocola</i> sp.	25-50	7-11	<2	20	<2	<2	<0.5

KBP.AS.844	<i>Arthrobacter agilis</i>	25-50	7-11	<2	20	15	<2	0.5
KBP.AS.845	<i>Streptomyces</i> sp.	10-25	7-12	20	20	20	<2	10
KBP.AS.846	<i>Arthrobacter</i> sp.	25-50	7-11	<2	20	20	15	1
KBP.AS.847	<i>Cellulomonas</i> sp.	25-25	3-12	20	15	20	<2	15
KBP.AS.848	<i>Massilia</i> sp.	25-25	7-11	<2	<2	<2	<2	10
KBP.AS.849	<i>Microbacterium</i> sp.	10-25	7-12	5	20	20	<2	10
KBP.AS.850	<i>Massilia</i> sp.	10-25	3-12	15	15	20	<2	15
KBP.AS.854	<i>Paracoccus marcusii</i>	25-25	7-11	<2	<2	<2	<2	<0.5
KBP.AS.855	<i>Rufibacter</i> sp.	10-45	4-12	20	20	20	20	15
KBP.AS.858	<i>Arthrobacter crystallopoietes</i>	4-45	4-12	20	20	20	<2	15
KBP.AS.862	<i>Arthrobacter</i> sp.	2-45	3-12	20	20	20	20	15
KBP.AS.866	<i>Sphingomonas</i> sp.	25-37	6-12	2	15	15	<2	5
KBP.AS.867	<i>Microbacterium paraoxydans</i>	4-45	3-12	20	20	20	<2	15
KBP.AS.868	<i>Pseudarthrobacter</i> sp.	10-45	4-12	15	20	20	15	5
KBP.AS.869	<i>Kocuria</i> sp.	10-45	3-12	20	20	20	15	15
KBP.AS.876	<i>Arthrobacter agilis</i>	10-25	7-12	<2	<2	<2	<2	<0.5
KBP.AS.877	<i>Salinibacterium</i> sp.	25-37	7-12	5	15	20	<2	<0.5
KBP.AS.899	<i>Streptomyces</i> sp.	25-45	6-12	15	15	20	<2	10
KBP.AS.916	<i>Planomicrobium glaciei</i>	25-25	7-11	<2	<2	<2	<2	10
KBP.AS.926	<i>Sphingomonas</i> sp.	25-25	7-12	20	20	20	<2	15
KBP.AS.927	<i>Arthrobacter agilis</i>	10-25	6-12	10	15	20	<2	5
KBP.AS.928	<i>Massilia</i> sp.	2-25	6-12	5	15	20	<2	<0.5
KBP.AS.929	<i>Pseudarthrobacter</i> sp.	25-25	7-11	<2	<2	<2	<2	10
KBP.AS.930	<i>Pseudarthrobacter</i> sp.	25-37	7-12	20	20	20	<2	10
KBP.AS.931	<i>Arthrobacter</i> sp.	25-25	7-11	<2	<2	<2	<2	10
KBP.AS.932	<i>Pseudarthrobacter</i> sp.	2-25	6-12	15	20	20	<2	10
KBP.AS.936	<i>Pseudarthrobacter phenanthrenivorans</i>	10-25	3-12	20	20	20	<2	15
KBP.AS.937	<i>Arthrobacter agilis</i>	10-25	6-12	15	15	20	15	<0.5
KBP.AS.938	<i>Streptomyces</i> sp.	10-37	4-12	5	2	20	<2	<0.5
KBP.AS.939	<i>Massilia</i> sp.	10-25	3-12	15	15	20	<2	15
KBP.AS.940	<i>Microbacterium</i> sp.	25-25	3-12	5	15	20	<2	15
KBP.AS.941	<i>Pseudarthrobacter</i> sp.	25-25	7-11	<2	<2	<2	<2	<0.5

KBP.AS.943	<i>Arthrobacter agilis</i>	10-25	7-11	15	<2	15	<2	<0.5
KBP.AS.947	<i>Microbacterium</i> sp.	25-25	7-11	<2	<2	<2	<2	<0.5
KBP.AS.954	<i>Microbacterium</i> sp.	25-25	7-12	5	15	20	<2	<0.5
KBP.AS.955	<i>Pseudarthrobacter</i> sp.	25-25	7-11	<2	<2	<2	<2	10
KBP.AS.956	<i>Planomicrobium</i> sp	25-25	7-12	15	15	20	<2	15
KBP.AS.957	<i>Arthrobacter</i> sp.	10-25	7-12	5	<2	<2	<2	<0.5
KBP.AS.958	<i>Arthrobacter</i> sp.	2-25	6-12	15	15	20	<2	10
KBP.AS.960	<i>Microbacterium</i> sp.	25-25	7-11	<2	<2	<2	<2	15
KBP.AS.961	<i>Cellulomonas</i> sp.	10-37	6-12	15	20	20	<2	15
KBP.AS.962	<i>Streptomyces</i> sp.	2-25	4-12	20	20	20	20	15
KBP.AS.963	<i>Arthrobacter agilis</i>	10-25	6-12	20	20	20	15	15
KBP.AS.972	<i>Micrococcus</i> sp.	10-37	6-12	15	15	20	<2	5
KBP.AS.973	<i>Rhodococcus erythropolis</i>	25-37	7-12	15	15	20	<2	10
KBP.AS.1003	<i>Arthrobacter</i> sp.	10-25	3-12	20	20	20	<2	15
KBP.AS.1005	<i>Leucobacter aridicollis</i>	10-25	3-12	20	20	20	<2	15
KBP.AS.1007	<i>Arthrobacter</i> sp.	2-25	3-12	15	15	20	<2	15
KBP.AS.1008	<i>Planomicrobium glaciei</i>	25-25	3-12	20	15	20	<2	15
KBP.AS.1009	<i>Pseudarthrobacter</i> sp.	10-25	3-12	20	20	20	<2	15
KBP.AS.1010	<i>Planomicrobium glaciei</i>	2-25	3-12	20	15	20	<2	15
KBP.AS.1011	<i>Arthrobacter</i> sp.	2-25	3-12	20	20	20	<2	15
KBP.AS.1012	<i>Planomicrobium</i> sp	10-25	3-12	15	15	20	<2	15
KBP.AS.1021	<i>Arthrobacter agilis</i>	2-25	3-12	15	20	20	<2	15
KBP.AS.1024	<i>Arthrobacter</i> sp.	25-25	3-12	5	15	20	<2	15
KBP.AS.1026	<i>Massilia</i> sp.	2-25	3-12	15	15	20	<2	15
KBP.AS.1028	<i>Agrococcus</i> sp.	10-25	3-12	15,00	15	20	<2	15
KBP.AS.1029	<i>Arthrobacter</i> sp.	10-25	3-12	20	20	20	<2	15
KBP.AS.1030	<i>Pseudarthrobacter</i> sp.	10-25	3-12	15	15	20	<2	15
KBP.AS.1031	<i>Massilia</i> sp.	25-25	3-12	15	5	20	<2	15
KBP.AS.1032	<i>Arthrobacter</i> sp.	10-25	3-12	15	15	20	<2	15
KBP.AS.1033	<i>Microbacterium</i> sp.	10-25	3-12	15	15	20	<2	15
KBP.AS.1037	<i>Massilia</i> sp.	25-25	3-12	15	20	20	<2	15
KBP.AS.1044	<i>Pontibacter</i> sp.	2-25	3-12	20	20	20	<2	15

Yellow strain highlight indicates cultures, which are resistant to 70% and more tests.