

**Collection of extreme environments microorganisms (CEEM)**

**CEEM CATALOGUE**

**Collection of Central Asia extremophiles microorganisms (CEEM), Institute of General and Experimental Biology, Siberian Branch, Russian Academy of Sciences**

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## **Prokaryota**

### **Domain *Bacteria***

#### **Phylum *Firmicutes***

##### ***Anoxybacillus mongoliensis***

CEEC № = T4 / Microbial mat, Tsenkher, Mongolia / Medium Pfenniga, 60°C, faculty anaerobic.

##### ***Bacillus licheniformis***

CEEC № = Br-2-2 / Microbial mat, Bolsherechenskiy, Buryatia, Russia / Medium Pfenniga, 55°C, faculty aerobic.

##### ***Anoxybacillus pushchinoensis***

CEEC № = Al-9-1 / Microbial mat, Alla, Buryatia, Russia / Medium Pfenniga, 55°C, faculty anaerobic.

##### ***Anoxybacillus pushchinoensis***

CEEC № = Ga-9-2 / Microbial mat, Garga, Buryatia, Russia / Medium Pfenniga, 55°C, faculty anaerobic.

##### ***Anoxybacillus eryuanensis***

CEEC № = Se-1-10 / Microbial mat, Seya, Buryatia, Russia / Medium Pfenniga, 50°C, faculty aerobic.

##### ***Bacillus licheniformis***

CEEC № = Um-09m / Microbial mat, Umkhey, Buryatia, Russia / Medium Pfenniga, 45°C, faculty aerobic.

##### ***Paenibacillus dendritiformis***

CEEC № = Gor-10s / Microbial mat, Goryachinsk, Buryatia, Russia / Medium Pfenniga, 40°C, faculty aerobic.

##### ***Paenibacillus dendritiformis***

CEEC № = Га-35 / Microbial mat, Garga, Buryatia, Russia / Medium Pfenniga, 45°C, faculty aerobic.

##### ***Amphibacillus alashanensis***

CEEC № = A11 / Sand mat, Lake desert Badain Jaran, Inner Mongolia, China / Medium Pfenniga, 30°C, facultative anaerobic.

##### ***Bacillus simplex***

CEEC № = 4 Cy / Bottoms, Sulfatnoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

##### ***Bacillus idriensis***

CEEC № = 2 Cy / Bottoms, Sulfatnoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

##### ***Bacillus safensis***

CEEC № = 10 Cy / Bottoms, Sulfatnoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Bacillus safensis***

CEEC № = Be a / Water, Beloye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Jeotgalibacillus campisalis***

CEEC № = 8 Cy / Bottoms, Sulfatnoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Sporosarcina aquamarina***

CEEC № = 5 Cy / Bottoms, Sulfatnoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Amphibacillus fermentum***

CEEC № = Z-7984 / Microbial mat, Lake desert Badain Jaran, Inner Mongolia, China / Medium Pfenniga, 30°C, facultative anaerobic.

***Salisediminibacterium haloalkalitolerans***

CEEC № = 10nlg / Microbial mat, Lake desert Badain Jaran, Inner Mongolia, China / Medium Pfenniga, 30°C, facultative anaerobic.

***Bacillus saliphilus***

CEEC № = K 5 / Bottom sediment, Lake Solenoe, Buryatia, Russia / Medium 2, 30°C, facultative anaerobic.

***Oceanobacillus iheyensis***

CEEC № = D1 / Bottom sediment, Doloon Davst Nuur, Mongolia / Medium 2, 30°C, facultative anaerobic

***Lyalikoviella elongate***

CEEC № = Sk1 / Bottom sediment, Lake Solenoe, Buryatia, Russia / Medium 2, 30°C, aerobic

***Sanguinoglea alkalitolerans***

CEEC № = Nu / Water, Lake Nuhe-Nur, Buryatia, Russia / Medium 2, 30°C, aerobic

***Bacillus pseudofirmus***

CEEC № = CM3 / Bottoms, Solenoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

**Phylum *Bacteroidetes***

***Belliella pelovolcani***

CEEC № = 1C / Water, Solenoye lake, Buryatia, Russia / Medium Marine agar, 30°C, aerobic.

***Belliella pelovolcani***

CEEC № = 2C / Water, Solenoye lake, Buryatia, Russia / Medium Marine agar, 30°C, aerobic.

***Belliella pelovolcani***

CEEC № = 3C / Water, Solenoye lake, Buryatia, Russia / Medium Marine agar, 30°C, aerobic.

***Belliella pelovolcani***

CEEC № = 4C / Water, Solenoye lake, Buryatia, Russia / Medium Marine agar, 30°C, aerobic.

***Belliella pelovolcani***

CEEC № = 5C / Water, Solenoye lake, Buryatia, Russia / Medium Marine agar, 30°C, aerobic.

**Phylum *Proteobacteria***

***Halomonas aquamarina***

CEEC № = K6 / Bottom sediment, Lake Solenoe, Buryatia, Russia / Medium 2, 30°C, facultative anaerobic

***Halomonas mongoliensis strain***

CEEC № = Z-7009 / Columnar mat, Lake desert Badain Jaran, Inner Mongolia, China / Medium Pfenniga, 30°C, facultative anaerobic.

***Paracoccus alcaliphilus***

CEEC № = 6C / Water, Solenoe lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Bogoriella caseolytica***

CEEC № = CM1 / Water, Solenoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Bogoriella caseolytica***

CEEC № = CM2 / Water, Solenoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Aliihoeflea aestuarii strain***

CEEC № = CM4 / Water, Solenoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Marinobacter excellens***

CEEC № = CM5 / Water, Solenoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Duganella zoogloides***

CEEC № = Bus-21 / sediments, Buksykhen, Northern Pribaikalie, Buryatia, Russia / Medium Pfenniga, 7-10°C, faculty anaerobic.

***Janthinobacterium lividum***

CEEC № = Buzh-1 / sediments, Buksykhen, Northern Pribaikalie, Buryatia, Russia / Medium Pfenniga, 7-10°C, faculty anaerobic.

***Yersinia kristensenii***

CEEC № = Bush-16 / sediments, Buksykhen, Northern Pribaikalie, Buryatia, Russia / Medium Pfenniga, 7-10°C, faculty anaerobic.

***Pseudomonas fluorescens***

CEEC № = LBPr5 / Water, shallow bay of Proval (Lake Baikal), Buryatia, Russia / Fish-peptone agar, 25°C, faculty aerobic.

***Pseudomonas fluorescens***

CEEC № = LBPS2 / Water, shallow bay of Posolsk Sor (Lake Baikal), Buryatia, Russia / Fish-peptone agar, 25°C, faculty aerobic.

***Desulfonatronum acetoxidans***

CEEC № = A1915-01 / sediments, Alla, Buryatia, Russia / Medium Pfenniga, 36°C, faculty anaerobic.

***Desulfonatronum lacustre***

CEEC № = B918-01/ sediments, Lake Beloe, Buryatia, Russia / Medium Pfenniga, 10-40°C, faculty anaerobic.

### Phylum *Actinobacteria*

***Micrococcus endophiticus***

CEEC № = 7C / Water, Solenoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Rothia nasimurium***

CEEC № = 8C / Water, Solenoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Bogoriella caseolytica***

CEEC № = CM1 / Bottoms, Solenoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Citrococcus zhacaensis***

CEEC № = 8 Cy / Bottoms, Sulfatnoye lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

***Brevibacterium casei***

CEEC № = LBPr6 / Water, shallow bay of Proval (Lake Baikal), Buryatia, Russia / Fish-peptone agar, 25°C, faculty aerobic.

***Brevibacterium sp. 2***

CEEC № = LBPr24 / Water, shallow bay of Proval (Lake Baikal), Buryatia, Russia / Fish-peptone agar, 25°C, faculty aerobic.

***Brevibacterium sp. SA312***

CEEC № = LBPr25 / Water, shallow bay of Proval (Lake Baikal), Buryatia, Russia / Fish-peptone agar, 25°C, faculty aerobic.

***Brevibacterium sp. 2***

CEEC № = LBChiv2 / Water, Chivyrkuy Bay (Lake Baikal), Buryatia, Russia / Fish-peptone agar, 25°C, faculty aerobic.

***Agrococcus sp. Everest-gws-11***

CEEC № = LBB2 / Water, Boyarsk (Lake Baikal), Buryatia, Russia / Fish-peptone agar, 25°C, faculty aerobic.

### **Phylum *Chloroflexi***

#### ***Chloroflexus aurantiacus***

CEEC № = Al-14-1/ Microbial mat, Alla, Buryatia, Russia / Medium Pfenniga, 55°C, faculty aerobic

### **Phylum *Cyanobacteria***

#### ***Phormidium breve***

CEEC № = Cya 1 / Microbial mat, Sulphatnoe, Buryatia, Russia / Modified medium "M", 25°C, pH 9.5, 1-5 g/l NaCl, alkalophilic.

#### ***Phormidium breve***

CEEC № = Cya 2 / Microbial mat, Ekhe Torom, Buryatia, Russia / Modified medium "M", 25°C, pH 9.5, 1-5 g/l NaCl, alkalophilic.

#### ***Gloeocapsa* sp. (Котокель 1, т.з.налет)**

CEEC № = K 1 / Microbial mat, Kotokelskoe, Buryatia, Russia / Medium "Z8", 25°C, pH 8, 10 g/l NaCl, neutrophilic and halotolerant.

#### ***Leptolyngbya fragilis* (Котокель 1-1)**

CEEC № = K 2 / Microbial mat, Kotokelskoe, Buryatia, Russia / Medium "Z8", 25°C, pH 8, 10 g/l NaCl, neutrophilic and halotolerant.

#### ***Phormidium* sp. (Котокель 1, т.з.нить)**

CEEC № = K 3 / Microbial mat, Kotokelskoe, Buryatia, Russia / Medium "Z8", 25°C.

#### ***Phormidium* sp. (Котокель 1, ж.з.налет)**

CEEC № = K 4 / Microbial mat, Kotokelskoe, Buryatia, Russia / Medium "Z8", 25°C.

#### ***Leptolyngbya* sp.**

CEEC № = Kh-11.8.1 / Microbial mat, Khilganta, Buryatia, Russia / Medium Zarruka, 25°C.

#### ***Leptolyngbya* sp.**

CEEC № = Kh-11.5 / Microbial mat, Khilganta, Buryatia, Russia / Medium Zarruka, 25°C.

#### ***Leptolyngbya* sp.**

CEEC № = S 142 / Microbial mat, Khilganta, Buryatia, Russia / Medium Zarruka, 25°C.

#### ***Oscillatoria* sp.**

CEEC № = Kh-11.5 / Microbial mat, Khilganta, Buryatia, Russia / Medium Zarruka, 25°C.

#### ***Nodularia* sp.**

CEEC № = S 134 / Microbial mat, Khilganta, Buryatia, Russia / Medium Zarruka, 25°C.

#### ***Microcoleus* sp.**

CEEC № = Kh-11-10 №2 / Microbial mat, Khilganta, Buryatia, Russia / Medium Zarruka, 25°C.

***Gleocapsa* sp.**

CEEC № = Dor-08 / Microbial mat, Doroninskoe, Buryatia, Russia / Medium Zarruka, 25°C, nanotrophic, halophilic.

***Halothece* sp.**

CEEC № = Bor / Microbial mat, Borzinskoe, Buryatia, Russia / Medium Zarruka, 25°C.

***Scytonema* sp.**

CEEC № = Scyt / Microbial mat, Garga, Buryatia, Russia / Medium Kastinkholtsa, 40°C, thermophilic.

***Spirulina* sp.**

CEEC № = S 144 / Microbial mat, Kiran, Buryatia, Russia / Medium Zarruka, 25°C.

***Oscillatoria* sp.**

CEEC № = Kh-11/ Microbial mat, Khilganta, Buryatia, Russia / Medium Zarruka, 25°C.

***Phormidium breve***

CEEC № = 3KL / Microbial mat, Kulunda, Altai / Medium Zarruka, 25°C.

***Gloeocapsa* sp.**

CEEC № = 9KL / Microbial mat, Kulunda, Altai / Medium Zarruka, 25°C, nanotrophic, halophilic.

***Nodularia* sp.**

CEEC № = 10KL T1 / Microbial mat, Kulunda, Altai / Medium Zarruka, 25°C, nanotrophic, halophilic.

***Nodularia* sp.**

CEEC № = 10KL T2 / Microbial mat, Kulunda, Altai / Medium Zarruka, 25°C, neutrophilic and halotolerant.

**Phylum *Deinococcus-Thermus***

***Meiothermus ruber***

CEEC № = Al-14-3 / Microbial mat, Alla, Buryatia, Russia / Medium Pfenniga, 50°C, thermophilic.

***Meiothermus ruber***

CEEC № = Ga-14-2 / Microbial mat, Garga, Buryatia, Russia / Medium Pfenniga, 45°C, thermophilic.

***Meiothermus ruber***

CEEC № = Um-14 / Microbial mat, Umkhei, Buryatia, Russia / Medium Pfenniga, 45°C, thermophilic.

***Meiothermus ruber***

CEEC № = Al-15-1p / Microbial mat, Alla, Buryatia, Russia / Medium Pfenniga, 50°C, thermophilic.

***Thermus igniterrae***

CEEC № = Al-15-1ж / Microbial mat, Alla, Buryatia, Russia / Medium Pfenniga, 50°C, thermophilic.

### **Unidentified strains**

CEEC № = Um-09s1 / Bottom sediment, Umkhey, Buryatia, Russia / Medium Pfenniga, 40°C, faculty aerobic.

CEEC № = Um-09s2 / Bottom sediment, Umkhey, Buryatia, Russia / Medium Pfenniga, 40°C, faculty aerobic.

CEEC № = Gor-10-3 / Microbial mat, Goryachinsk, Buryatia, Russia / Medium Pfenniga, 40°C, faculty aerobic.

CEEC № = Gor-10-1m / Microbial mat, Goryachinsk, Buryatia, Russia / Medium Pfenniga, 40°C, faculty aerobic.

CEEC № = Gor-10-2 / Microbial mat, Goryachinsk, Buryatia, Russia / Medium Pfenniga, 50°C, faculty aerobic.

CEEC № = A2 / Bottom sediment, Goryachinsk, Buryatia, Russia / Medium Ashby, 30°C, faculty aerobic.

CEEC № = A5 / Bottom sediment, Alla, Buryatia, Russia / Medium Ashby, 30°C, faculty aerobic.

CEEC № = 7A / Microbial mat, Lake desert Badain Jaran, Inner Mongolia, China / Medium Pfenniga, 37°C, aerobic.

CEEC № = 7P / Microbial mat, Lake desert Badain Jaran, Inner Mongolia, China / Medium Pfenniga, 37°C, aerobic.

CEEC № = 7B / Microbial mat, Lake desert Badain Jaran, Inner Mongolia, China / Medium Pfenniga, 37°C, aerobic.

CEEC № = 7-300 / Microbial mat, Lake desert Badain Jaran, Inner Mongolia, China / Medium Pfenniga, 37°C, aerobic.

CEEC № = 7G / Microbial mat, Lake desert Badain Jaran, Inner Mongolia, China / Medium Pfenniga, 37°C, aerobic.

CEEC № = 5-300 / Microbial mat, Lake desert Badain Jaran, Inner Mongolia, China / Medium Pfenniga, 37°C, aerobic.

CEEC № = A1 / Bottom sediment , Lake Alga, Buryatia, Russia / Medium 2, 30°C, facultative anaerobic

CEEC № = A3 / Bottom sediment, Lake Alga, Buryatia, Russia / Medium 2, 30°C, facultative anaerobic

CEEC № = A4 / Bottom sediment, Lake Alga, Buryatia, Russia / Medium 2, 30°C, facultative anaerobic



CEEC № = D2 / Bottom sediment, Doloon Davst Nuur, Mongolia / Medium 2, 30°C, facultative anaerobic

CEEC № = D3 / Bottom sediment, Doloon Davst Nuur, Mongolia / Medium 2, 30°C, facultative anaerobic

CEEC № = X1 / Bottom sediment, Lake Khilganta, Buryatia, Russia / Medium 2, 30°C, facultative anaerobic

CEEC № = X3 / Bottom sediment, Lake Khilganta, Buryatia, Russia / Medium 2, 30°C, facultative anaerobic

CEEC № = X4 / Bottom sediment, Lake Khilganta, Buryatia, Russia / Medium 2, 30°C, facultative anaerobic

CEEC № = K3 / Bottom sediment, Lake Solenoe, Buryatia, Russia / Medium 2, 30°C, facultative anaerobic

CEEC № = K7 / Bottom sediment, Lake Solenoe, Buryatia, Russia / Medium 2, 30°C, facultative anaerobic

CEEC № = K8 / Bottoms Lake Solenoe, Buryatia, Russia / Medium 2, 30°C, facultative anaerobic

CEEC № = C1K / Bottom sediment, Lake Solenoe, Buryatia, Russia / Medium 1, 30°C, facultative anaerobic

CEEC № = C2K / Bottom sediment, Lake Solenoe, Buryatia, Russia / Medium 1, 30°C, facultative anaerobic

CEEC № = C4K / Bottom sediment, Lake Solenoe, Buryatia, Russia / Medium 1, 30°C, facultative anaerobic

CEEC № = L1K / Bottom sediment, Lake Solenoe, Buryatia, Russia / Medium 1, 30°C, facultative anaerobic

CEEC № = 2a / Bottom sediment, Lake Gorbunka, Buryatia, Russia / Medium 1, 30°C, facultative anaerobic

CEEC № = 8a / Bottom sediment, Lake Gorbunka, Buryatia, Russia / Medium 1, 30°C, facultative anaerobic

CEEC № = 10a / Bottom sediment, Lake Gorbunka, Buryatia, Russia / Medium 1, 30°C, facultative anaerobic

CEEC № = N2 / Water, Lake Nuhe-Nur, Buryatia, Russia / Medium 2, 30°C, facultative anaerobic

CEEC № = Gu-1 / Microbial mat, Gusikha, Buryatia, Russia / Medium Pfenniga, 55°C, facultative aerobic

CEEC № = Ur-5 / Microbial mat, Uro, Buryatia, Russia / Medium Pfenniga, 55°C, faculty aerobic

CEEC № = Ur-6 / Microbial mat, Uro, Buryatia, Russia / Medium Pfenniga, 55°C, faculty aerobic

CEEC № = Ur-7 / Microbial mat, Uro, Buryatia, Russia / Medium Pfenniga, 55°C, faculty aerobic

CEEC № = Br-2-1 / Microbial mat, Bolsherechenskiy, Buryatia, Russia / Medium Pfenniga, 55°C, faculty aerobic

CEEC № = Br-5 / Microbial mat, Bolsherechenskiy, Buryatia, Russia / Medium Pfenniga, 55°C, faculty aerobic

CEEC № = Se-1 / Microbial mat, Seyuya, Buryatia, Russia / Medium Pfenniga, 55°C, faculty aerobic

CEEC № = Se-3 / Microbial mat, Seyuya, Buryatia, Russia / Medium Pfenniga, 55°C, faculty aerobic

CEEC № = HB-12-8 / Bottoms, Nizhnee below lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

CEEC № = HB-12-9 / Bottoms, Nizhnee below lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

CEEC № = BB-12-14 / Bottoms, Verhnee below lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

CEEC № = BB-12-15 / Bottoms, Verhnee below lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

CEEC № = BB-12-12 / Bottoms, Verhnee below lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

CEEC № = HB-12-5 / Bottoms, Nizhnee below lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

CEEC № = B12-4 / Bottoms, Beloe lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

CEEC № = B12-3 / Bottoms, Beloe lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

CEEC № = B12-1 / Bottoms, Beloe lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

CEEC № = B12-6 / Bottoms, Beloe lake, Buryatia, Russia / Medium Plate count agar (1:10), 30°C, aerobic.

CEEC № = H1 / Bottoms, Huzhirt, Mongolia / Medium Pfenniga, 55°C, faculty aerobic.

CEEC № = H2 / Bottoms, Huzhirt, Mongolia / Medium Pfenniga, 55°C, faculty aerobic.

CEEC № = H5 / Bottoms, Huzhirt, Mongolia / Medium Pfenniga, 55°C, faculty aerobic.

CEEC № = H6 / Bottoms, Huzhirt, Mongolia / Medium Pfenniga, 55°C, faculty aerobic.

CEEC № = T1 / Bottoms, Tsenkher, Mongolia / Medium Pfenniga, 55°C, faculty aerobic.

CEEC № = T2 / Bottoms, Tsenkher, Mongolia / Medium Pfenniga, 55°C, faculty aerobic.

CEEC № = T3 / Bottoms, Tsenkher, Mongolia / Medium Pfenniga, 55°C, faculty aerobic.

CEEC № = T5 / Bottoms, Tsenkher, Mongolia / Medium Pfenniga, 55°C, faculty aerobic.

CEEC № = S2 / Bottoms, Shivert, Mongolia / Medium Pfenniga, 55°C, faculty aerobic.

CEEC № = S3 / Bottoms, Shivert, Mongolia / Medium Pfenniga, 55°C, faculty aerobic.

CEEC № = S4 / Bottoms, Shivert, Mongolia / Medium Pfenniga, 55°C, faculty aerobic.

CEEC № = Pr7 / Water, shallow bay of Proval (Lake Baikal), Buryatia, Russia / Fish-peptone agar, 25°C, faculty aerobic.

CEEC № = Ps1 / Water, shallow bay of Posolskiy Sor (Lake Baikal), Buryatia, Russia / Fish-peptone agar, 25°C, faculty aerobic.

CEEC № = Ps3 / Water, shallow bay of Posolskiy Sor (Lake Baikal), Buryatia, Russia / Fish-peptone agar, 25°C, faculty aerobic.

CEEC № = 21 Chiv / Water, shallow bay of Chivurkuy (Lake Baikal), Buryatia, Russia / Fish-peptone agar, 25°C, faculty aerobic.

## **Eukaryota**

### **Domain *Algae***

#### **Phylum *Green algae***

##### ***Chlorococcum* sp.**

CEEC № = D 1 / Microbial mat, Dikoe, Buryatia, Russia / Medium “Z8”, 25°C, pH 8, neutrophilic.

##### ***Chlorococcum* sp.**

CEEC № = D 2 / Microbial mat, Dikoe, Buryatia, Russia / Medium “Z8”, 25°C, pH 8, 10 g/l NaCl, neutrophilic and halotolerant.