

Cawthron Institute Culture Collection of Micro-algae (CICCM)

Catalogue of strains: January 2010

Website edition

Cawthron Institute
98 Halifax Street East
Private Bag 2
Nelson 7042
New Zealand
Ph. +64 3 548 2319
Fax +64 3 546 9464
www.cawthron.org.nz

Diatoms



Dinoflagellates



Flagellates



Cyanobacteria



Curator: Krystyna Ponikla

Email: krystyna.ponikla@cawthron.org.nz

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Curator: Krystyna Ponikla
E-mail: Krystyna.Ponikla@cawthron.org.nz
Phycologists: Lesley Rhodes, Lincoln MacKenzie
E-mail: Lesley.Rhodes@cawthron.org.nz
Lincoln.Mackenzie@cawthron.org.nz

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Curator: Krystyna Ponikla
E-mail: Krystyna.Ponikla@cawthron.org.nz
Phycologists: Susie Wood, Lesley Rhodes
E-mail: Susie.Wood@cawthron.org.nz
Lesley.Rhodes@cawthron.org.nz

Important notes:

- 1. Not all strains may be available at any particular time. Cawthron Institute reserves the right to exercise its discretion not to provide strains when requested.*
- 2. Cawthron Institute requires that a Biological Material Agreement, outlining terms and conditions of supply, is signed by all recipients and returned to Cawthron before any strain is dispatched.*
- 3. Strains originating from outside New Zealand, while listed, will not be passed on except under special circumstances. We will happily try to help you make contact with the original source.*
- 4. Some strains are held only in liquid nitrogen (cryopreserved), some are both live in liquid media and frozen in cryobank; please refer to 'Comments' column.*

Marine Algae

Class/Species	Cawthron code number	Isolator	Site of Isolation and/or source	Original strain designation	Culture medium	Comments
Bacillariophyceae (Diatoms)						
<i>Paralia marina</i>	CAWB38	L. Rhodes	Croisilles Harbour NZ		F/2	
<i>Pseudo-nitzschia americana</i>	CAWB80	L. Rhodes	Opihi NZ	Opihi 2	F/2	
<i>Pseudo-nitzschia americana</i>	CAWB81	L. Rhodes	Bowentown NZ	Bowentown 12	F/2	
<i>Pseudo-nitzschia australis</i>	CAWB95	L. Rhodes	Gisborne Hrb NZ		F/2	
<i>Pseudo-nitzschia fraudulenta</i>	CAWB94	L. Rhodes	Pania Reef, Hawke's Bay NZ	Strain 3	F/2	
<i>Pseudo-nitzschia multistriata</i>	CAWB98	L. Rhodes	Waitata, NZ	Strain 4	F/2	
<i>Pseudo-nitzschia pungens</i>	CAWB96	L. Rhodes	Gisborne Hrb. NZ	Strain 20	F/2	
<i>Pseudo-nitzschia pungens</i>	CAWB97	L. Rhodes	Hallam Cove Marl. Snds. NZ		F/2	
<i>Pseudo-nitzschia sp.</i>	CAWB99	L. Rhodes	Laverique Bay, NZ	Strain 2	F/2	

Class/Species	Cawthron code number	Isolator	Site of Isolation and/or source	Original strain designation	Culture medium	Comments
Dictyochophyceae						
<i>Pseudochattonella verruculosa</i>	CAWDC01	L. Rhodes	Kaikoura, NZ		L 1	Former raphidophycean CAWR21
<i>Pseudochattonella verruculosa</i>	CAWDC02	J. Adamson	Taylor's Mistake, NZ		L 1	Former raphidophycean CAWR22

Class/Species	Cawthron code number	Isolator	Site of Isolation and/or source	Original strain designation	Culture media	Comments
Dinophyceae (Dinoflagellates)						
<i>Akashiwo sanguinea</i> (Syn: <i>Gymnodinium sanguineum</i>)	CAWD01	L. Rhodes	Marlborough Sounds NZ		50% GP	
<i>Alexandrium catenella</i>	CAWD44	L. MacKenzie	Tauranga NZ	Strain #2	GP	
<i>Alexandrium catenella</i>	CAWD45	L. MacKenzie	Tauranga NZ	Strain #18	GP	
<i>Alexandrium catenella</i>	CAWD46	L. MacKenzie	Tauranga NZ	Strain #20	GP	
<i>Alexandrium catenella</i>	CAWD47	L. MacKenzie	Tauranga NZ	Strain #22	GP	
<i>Alexandrium catenella</i>	CAWD49	L. MacKenzie	Te Kaha NZ	Strain #3	GP	
<i>Alexandrium catenella</i>	CAWD50	L. MacKenzie	Te Kaha NZ	Strain #11	GP	
<i>Alexandrium concavum</i>	CAWD51	L. MacKenzie	Tapeka NZ		L 1	
<i>Alexandrium concavum</i>	CAWD52	L. MacKenzie	Coromandel NZ	Strain #5	L 1	
<i>Alexandrium fraterculus</i>	CAWD97	L. MacKenzie	Coromandel NZ		L 1	
<i>Alexandrium margalefii</i>	CAWD10	L. MacKenzie	Bream Bay NZ		GP	
<i>Alexandrium minutum A</i>	CAWD11	L. MacKenzie	Anakoha Bay NZ		GP	
<i>Alexandrium minutum B</i>	CAWD12	L. MacKenzie	Anakoha Bay NZ		GP	
<i>Alexandrium minutum</i>	CAWD13	L. MacKenzie	Croisilles Harbour NZ		GP	
<i>Alexandrium ostenfeldii</i>	CAWD135	L. MacKenzie	Big Glory Bay NZ	Strain BGB I	GP	
<i>Alexandrium ostenfeldii</i>	CAWD136	L. MacKenzie	Big Glory Bay NZ	Strain BGB II	GP	
<i>Alexandrium ostenfeldii</i>	CAWD155	L. Rhodes	Rangaunu Harbour NZ	Strain 6	GP	
<i>Alexandrium pseudogonyaulax</i>	CAWD54	L. MacKenzie	Tamaki Strait NZ		L 1	
<i>Alexandrium pseudogonyaulax</i>	CAWD138	K. Ayers	Kerikeri NZ		L 1	
<i>Alexandrium tamarense</i>	CAWD20	I. Adams	Univ.of Copenhagen	Plymouth 173 (K 0049)	GP	
<i>Alexandrium tamarense</i>	CAWD121	L. MacKenzie	Marsden Point NZ		GP	

Dinophyceae cont.

Species	Cawthron code number	Isolator	Site of isolation and/or source	Original strain designation	Culture media	Comments	
<i>Amphidinium carterae</i>	CAWD22	L. Rhodes	Wellington Hrb NZ	Plym450; Also CS-212	----	Cryo only	
<i>Amphidinium carterae</i>	CAWD23	L. Rhodes	Marlborough Sounds NZ		----	Cryo only	
<i>Amphidinium carterae</i>	CAWD24	R. Jowett	Bay of Naples, Italy		----	Cryo only	
<i>Amphidinium carterae</i>	CAWD57	L. Rhodes	Kauauora NZ		GP	Live + cryo	
<i>Amphidinium carterae</i>	CAWD152	L. Rhodes	Rarotonga, Cook Is.		F/2	Live + cryo	
<i>Amphidinium cf massartii</i>	CAWD132	L. Rhodes	Whangaroa Hrb NZ		Strain 18	L 1	Live + cryo
<i>Amphidinium massartii</i>	CAWD156	L. Rhodes	Rangaunu Hrb NZ			F/2	Live + cryo
<i>Amphidinium operculatum</i>	CAWD56	L. Rhodes	Parengarenga NZ			L 1	Live + cryo
<i>Amphidinium trulla</i>	CAWD68	W. Gibbs	Rangaunu NZ			GP	
<i>Amphidinium sp.</i>	CAWD160	L. Rhodes	Vairoa -Tahiti, French Polynesia			F/2	
<i>Amphidinium sp.</i>	CAWD162	L. Rhodes	Cook Islands	F/2			
<i>Coolia monotis</i>	CAWD60	I.Bravo	Ria de Vigo, Spain	CCMP304		F/2	
<i>Coolia monotis</i>	CAWD77	L. Rhodes	Rangiputa NZ			F/2	
<i>Coolia monotis</i>	CAWD98	L. Rhodes	Glenhaven NZ		F/2		
<i>Coolia monotis</i>	CAWD151	L. Rhodes	Rarotonga, Cook Is.		F/2		
<i>Coolia monotis</i>	CAWD154	L. Rhodes	Rangaunu Hrb. NZ		F/2		
<i>Coolia monotis</i>	CAWD175	L. Rhodes	Rangaunu Hrb. NZ		F/2		
<i>Gambierdiscus australes</i>	CAWD149	L. Rhodes	Rarotonga, Cook Is.		Strain G	F/2	
<i>Gambierdiscus australes</i>	CAWD169	L. Rhodes	Cook Islands			F/2	
<i>Gonyaulax cf elegans</i>	CAWD143	J.Adamson	Wilson's Bay NZ			50%GP	
<i>Gonyaulax hyalina</i>	CAWD100	L.MacKenzie	Tasman Bay NZ			GP	
<i>Gonyaulax cf spinifera</i>	CAWD144	J.Adamson	Wilson's Bay NZ	L 1			
<i>Gonyaulax sp.</i>	CAWD141	L.Rhodes	Wilson's Bay NZ	F/2			

Dinophyceae cont.

Species	Cawthron code number	Isolator	Site of isolation and/or source	Original strain designation	Culture media	Comments
<i>Gymnodinium aureolum</i>	CAWD59	A. Haywood	Leigh NZ		50% GP	
<i>Gymnodinium aureolum</i>	CAWD87	A. Haywood	Coromandel NZ		50% GP	
<i>Gymnodinium aureolum</i>	CAWD116	J. Adamson	Melville Cove NZ		50% GP	
<i>Gymnodinium catenatum</i>	CAWD101	L. MacKenzie	Kaitaia spat NZ	Gc-KSC-1	50% GP	
<i>Gymnodinium catenatum</i>	CAWD102	L. MacKenzie	Kaitaia spat NZ	Gc-KSC-2	L 1	
<i>Gymnodinium catenatum</i>	CAWD109	L. MacKenzie	Manganui Bluff NZ	Gc-MBC-9	L 1	
<i>Gymnodinium catenatum</i>	CAWD125	L. MacKenzie	Huia Bank, Man. Hrb NZ	HB#1	GP	
<i>Gymnodinium catenatum</i>	CAWD126	L. MacKenzie	Huia Bank, Man. Hrb NZ	HB#6	GP	
<i>Gymnodinium chlorophorum</i>	CAWD62	L. MacKenzie	Ruakaka Bay NZ		50% GP	
<i>Gymnodinium impudicum</i>	CAWD03	A. Haywood	Kawau Is. NZ		50% GP	
<i>Gymnodinium cf impudicum</i>	CAWD139	J. Adamson	Waimungu Pt. NZ	C09	L 1	
<i>Gymnodinium cf impudicum</i>	CAWD140	J. Adamson	Wilson's Bay NZ	C29	50% GP	
<i>Gymnodinium instriatum</i>	CAWD137	L Rhodes	East Bay NZ		GP	
<i>Gymnodinium simplex</i>	CAWD86	A. Haywood	Tauranga. NZ		50% GP	
<i>Gymnodinium sp.</i>	CAWD71	A. Haywood	NZ unknown		50% GP	
<i>Gymnodinium sp.</i>	CAWD172	L. Rhodes	Narrow Neck Beach, Auckland, NZ		F/2	
<i>Heterocapsa illdefina</i>	CAWD124	L. MacKenzie	Pukehina Bay NZ		GP	
<i>Heterocapsa triquetra</i>	CAWD36	L. Rhodes	Akaroa NZ		GP	
<i>Heterocapsa sp.</i>	CAWD88	A. Haywood	Kerikeri NZ		50% GP	
<i>Karenia bidigitata</i>	CAWD80	L. MacKenzie	Fouveau Strait NZ		50% GP	
<i>Karenia bidigitata</i>	CAWD81	L. MacKenzie	Fouveau Strait NZ		50% GP	
<i>Karenia bidigitata</i>	CAWD92	A. Haywood	Hawkes Bay NZ		50% GP	

Dinophyceae cont.

Species	Cawthron code number	Isolator	Site of isolation and/or source	Original strain designation	Culture media	Comments
<i>Karenia brevis</i>	CAWD04		Florida, USA	Wilson strain	50% GP	
<i>Karenia brevis</i>	CAWD06		Rhode Is. USA	Wilson strain	50% GP	
<i>Karenia brevis</i>	CAWD08		Rhode Is. USA	Wilson strain	50% GP	
<i>Karenia brevis</i>	CAWD122		Florida, USA	EPA-JR strain	L 1	
<i>Karenia brevisulcata</i>	CAWD82	L.MacKenzie	Wgtn. Harbour NZ		GP	
<i>Karenia mikimotoi</i>	CAWD05	T.Ishimaru	Kushimoto, Japan	Tokyo, Uni. of Fisheries	50% GP	
<i>Karenia mikimotoi</i>	CAWD63	A. Haywood	Waimangu NZ		50% GP	
<i>Karenia mikimotoi</i>	CAWD117	J. Adamson	East Bay, Marl. Snds NZ		50% GP	
<i>Karenia mikimotoi</i>	CAWD133	J. Adamson	Kennedy Bay, NZ		50% GP	
<i>Karenia mikimotoi</i>	CAWD134	J. Adamson	Whangaporoa, NZ		50% GP	
<i>Karenia papilionacea</i>	CAWD91	A. Haywood	Hawkes Bay NZ		50% GP	
<i>Karenia selliformis</i>	CAWD79	L. MacKenzie	Fouveau Strait NZ		GP	
<i>Karenia umbella</i>	CAWD131	M. de Salas	Port Nelson NZ		50% GP	
<i>Karlodinium veneficum</i>	CAWD83	A. Haywood	Whangakoko NZ		50% GP	
<i>Karlodinium veneficum</i> (Syn: <i>Karlodinium micrum</i>)	CAWD84	A. Haywood	Kawau Is. NZ		50% GP	
<i>Karlodinium veneficum</i> (Syn: <i>Karlodinium micrum</i>)	CAWD93	L.MacKenzie	Ponui Is. NZ		50% GP	
<i>Ostreopsis ovata</i>	CAWD174	L. Rhodes	Cook Islands		F/2	
<i>Ostreopsis siamensis</i>	CAWD96	L. Rhodes	Kerikeri NZ		L1	
<i>Ostreopsis siamensis</i>	CAWD147	L. Rhodes	Mahinepua NZ		L1	
<i>Ostreopsis siamensis</i>	CAWD173	L. Rhodes	Rangaunu Harbour, NZ		F/2	
<i>Ostreopsis sp.</i>	CAWD179	L. Rhodes	Australia		F/2	

Dinophyceae cont.

Species	Cawthron code number	Isolator	Site of isolation and/or source	Original strain designation	Culture media	Comments
<i>Prorocentrum balticum</i>	CAWD38	L. MacKenzie	Taharoa NZ		GP	
<i>Prorocentrum compressum</i>	CAWD30	L. MacKenzie	Taharoa NZ		L 1	
<i>Prorocentrum compressum</i>	CAWD31	L. Rhodes	Ninety Mile Beach NZ		L 1	
<i>Prorocentrum compressum</i>	CAWD146	L. Rhodes	The Bluff NZ		L 1	
<i>Prorocentrum gracile</i>	CAWD120	J. Adamson	Wedge Point NZ		GP	
<i>Prorocentrum gracile</i>	CAWD142	L. Rhodes	Wilson's Bay NZ		L 1	
<i>Prorocentrum lima</i>	CAWD32		Spain /NEPCC	Spanish strain	F/2	
<i>Prorocentrum lima</i>	CAWD33	L. Rhodes	Rangaunu NZ		F/2	
<i>Prorocentrum lima</i>	CAWD69	L. Rhodes	Rangiputa NZ	Strain 1	F/2	
<i>Prorocentrum lima</i>	CAWD94	L. Rhodes	Rangiputa NZ	Strain 2	F/2	
<i>Prorocentrum lima</i>	CAWD70	L. Rhodes	Whatuwhiwhi NZ		F/2	
<i>Prorocentrum lima</i>	CAWD95	L. Rhodes	Croisilles Harbour NZ		F/2	
<i>Prorocentrum lima</i>	CAWD157	L. Rhodes	Rangaunu Harbour NZ	Strain 27	F/2	
<i>Prorocentrum lima</i>	CAWD176	L. Rhodes	Rangaunu Harbour NZ	Strain 3	F/2	
<i>Prorocentrum cf maculosum</i>	CAWD158	L. Rhodes	Rangaunu Harbour NZ	Strain 10	F/2	
<i>Prorocentrum micans</i>	CAWD34	L. Rhodes	Marlb.Sounds NZ		50%GP	
<i>Prorocentrum rhathymum</i>	CAWD153	M. de Salas	Port Lincoln, Australia	PRLPL03	50%GP	
<i>Prorocentrum rhathymum</i>	CAWD159	L. Rhodes	Vairoa -Tahiti, French Polynesia		F/2	
<i>Protoceratium reticulatum</i>	CAWD40	J. Adamson	Wedge Pt. NZ		GP	
<i>Protoceratium reticulatum</i>	CAWD99	M. de Salas	Derwent Estuary	Australia	GP	
<i>Protoceratium reticulatum</i>	CAWD127	L. Rhodes	Marlb. Snds. NZ		GP	
<i>Protoceratium reticulatum</i>	CAWD129	L. MacKenzie	Westport NZ	Strain WP1	GP	
<i>Protoceratium reticulatum</i>	CAWD130	L. MacKenzie	Westport NZ	Strain WP2	GP	
<i>Scrippsiella</i> sp.	CAWD67	M. Atkinson	Hauraki Gulf NZ		GP	
<i>Takayama helix</i>	CAWD128	L. MacKenzie	Tasman Bay NZ		50%GP	
<i>Takayama tasmanica</i>	CAWD115	J. Adamson	Glenhaven NZ		50%GP	
<i>Togula jolla</i>	CAWD41	L. Rhodes	Awaroa NZ		L 1	
<i>Togula jolla</i>	CAWD58	L. Rhodes	Napier NZ		L 1	

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Haptophyceae =Prymnesiophyceae						
<i>Chrysochromulina apheles</i>	CAWP05	L. Rhodes	Pakiri NZ		GP	
<i>Chrysochromulina camella</i>	CAWP16	L. Rhodes	Ruakaka Bay NZ		GP	
<i>Chrysochromulina camella</i>	CAWP28	L. Rhodes	Coromandel NZ		GP	
<i>Chrysochromulina ericina</i>	CAWP01	B. Burke	HaurakiGulf NZ		GP	
<i>Chrysochromulina ericina</i>	CAWP31	L. Rhodes	Coromandel NZ		GP	
<i>Chrysochromulina hirta</i>	CAWP02	L. Rhodes	Ninety Mile Beach NZ		GP	
<i>Chrysochromulina simplex</i>	CAWP03	L. Rhodes	Hauraki Gulf NZ		----	Cryo only
<i>Chrysochromulina simplex</i>	CAWP20	Othman Bojo	Blueskin Bay NZ		GP	
<i>Emiliania huxleyi</i>	CAWP06	L. Rhodes	Big Glory Bay NZ		----	Cryo only
<i>Imantonia sp</i>	CAWP23	Othman Bojo	Blueskin Bay NZ		----	Cryo only
<i>Pavlomulina sp</i>	CAWP21	Othman Bojo	Tapeka NZ		F/2	
<i>Phaeocystis globosa</i>	CAWP26	Othman Bojo	Southland Current Otago NZ	strain No. 16	F/2	
<i>Phaeocystis globosa</i>	CAWP30	L. Rhodes	Coromandel NZ	strain No. 23	F/2	
<i>Phaeocystis globosa</i>	CAWP32	Othman Bojo	Otago Coast NZ	strain No. 9	F/2	
<i>Phaeocystis globosa</i>	CAWP34	Othman Bojo	South Current NZ	strain No. 12	F/2	
<i>Phaeocystis globosa</i>	CAWP35	Othman Bojo	Pelorous Sound NZ	strain No. 20	F/2	
<i>Phaeocystis cf pouchetii</i>	CAWP24	Othman Bojo	Tapeka NZ	strain No. 7	F/2	
<i>Phaeocystis cf pouchetii</i>	CAWP25	Othman Bojo	Mistake Point NZ	strain No. 8	F/2	
<i>Phaeocystis cf pouchetii</i>	CAWP37	Othman Bojo	East Bay NZ	strain No. 10	F/2	
<i>Prymnesium parvum</i>	CAWP10	T. Christensen	Univ. of Copenhagen	K 0081	GP	Live + cryo
<i>Prymnesium patelliferum</i>	CAWP11	D.J. Hibberd	CSIRO	Plym.527/CS-288	----	Cryo only
<i>Prymnesium patelliferum</i>	CAWP12	O. Moestrup	Univ. of Copenhagen	K 0252	----	Cryo only

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Raphidophyceae						
<i>Chattonella marina</i> var. <i>antiqua</i>	CAWR01	M.Watanabe	Seto Inl. Sea Jap./CSIRO	NIES-1/ CS-171;331	F/2	
<i>Chattonella marina</i> var. <i>antiqua</i>	CAWR18	L. Rhodes	Wellington Harbour NZ		F/2	
<i>Chattonella marina</i> var. <i>antiqua</i>	CAWR23	L. Rhodes	Great Barrier Is. Port Fitzroy NZ		F/2	
<i>Fibrocapsa japonica</i>	CAWR02	L. Rhodes	Leigh NZ		GP	
<i>Fibrocapsa japonica</i>	CAWR03	K. Yuki	Tsuda Bay Jap./CSIRO	NIES-136/ CS-332	GP	
<i>Fibrocapsa japonica</i>	CAWR19	L. Rhodes	Wellington Harbour NZ		GP	
<i>Heterosigma akashiwo</i>	CAWR04	J.L. Stauber	West Lake, Australia/CSIRO	CS-169	GP	
<i>Heterosigma akashiwo</i>	CAWR05	L. MacKenzie	Big Glory Bay NZ		GP	
<i>Heterosigma akashiwo</i>	CAWR06	L. Rhodes	Leigh NZ		GP	
<i>Heterosigma akashiwo</i>	CAWR08	L. Rhodes	Ruakaka NZ		GP	
<i>Heterosigma akashiwo</i>	CAWR09	L. MacKenzie	Nelson Harbour NZ		GP	
<i>Heterosigma akashiwo</i>	CAWR13	L. MacKenzie	Hauraki Gulf NZ		GP	
<i>Heterosigma akashiwo</i>	CAWR14	RA Cattolico	Manchester, Puget Snd, USA	Man E	GP	
<i>Heterosigma akashiwo</i>	CAWR15	JNC Whyte, E. Black	Barkley Snd, Vancouver Is. Canada	ABC ² , NWFSC 502	GP	

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Chlorophyceae (Green Algae) <i>Chlamydomonas coccooides</i>	CAWG01	MAF	Mahanga Bay, NZ		GP	
Cryptophyceae (Cryptomonad Flagellates) <i>Cryptomonas sp.</i>	CAWCr01	L.Rhodes	Marlborough Sounds, NZ		GP	
Prasinophyceae <i>Tetraselmis suecica</i>	CAWPR01	A. Dodson	Brest, France/CSIRO	CS-187	-----	Cryo only
Rhodophyceae (Red Algae) <i>Porphyridium purpureum</i>	CAWRh02		Canada/CSIRO	Halifax, Canada/CS25	-----	Cryo only

Class/Species	Cawthron code number	Isolator	Site of Isolation and/or source	Original strain designation	Culture media	Comment
Cyanophyceae (blue-green algae)						
<i>Chroococcus cf giganteus</i>	CAWBG101	L.Rhodes	Rangaunu Harbour, NZ		-----	Cryo only
<i>Chroococcus cf giganteus</i>	CAWBG102	L.Rhodes	Rarotonga, Cook Islands		-----	Cryo only
<i>Chroococcus sp.</i>	CAWBG103	L.Rhodes	Vairoa -Tahiti, French Polynesia		-----	Cryo only
<i>Oscillatoria sp.</i>	CAWBG106	L.Rhodes	Vairoa -Tahiti, French Polynesia		F/2	
<i>cf Oscillatoria sp.</i>	CAWBG107	L.Rhodes	Narrow Neck Beach, Auckland		-----	Cryo only
<i>cf Phormidium sp.</i>	CAWBG108	L.Rhodes	Narrow Neck Beach, Auckland		-----	Cryo only

Freshwater Algae

Class/Species	Cawthron code number	Isolator	Site of isolation and/or source	Original strain designation	Culture media	Comments
Chlorophyceae (Green algae) <i>Chlamydomonas reinhardtii</i>	CAWG501	G. M. Smith	Massachusetts USA	Clones from soil organism isolated in 1945 in Massachusetts	TAP+/- agar	
Cyanophyceae (Blue-green algae) <i>Aphanizomenon sp.</i>	CAWBG01	Wayne Carmichael	Durham, New Hampshire, USA/ Source: Wright State Uni. USA	strainNH-5, clone a-4 (NH-5a-4)	MLA	Live + cryo
<i>Aphanizomenon issatschenkoi</i>	CAWBG02	Anna Crowe	Lake Hakanoa, Waikato NZ	HAKA01	MLA	Live + cryo

Cawthron Institute Culture Collection of Micro-algae (CICCM) is still under development, with newly isolated strains being continuously added to the list.

Acronyms:

CSIRO	Culture collection of microalgae, Hobart, Tasmania
NEPCC	North East Pacific Culture Collection U.B.C. Vancouver, B.C. Canada
CCMP	Provasoli-Guillard Nat. Center for Culture of Marine Phytoplankton, USA
NIES	National Institute for Environmental Studies Collection, Japan
EPA	Environmental Protection Agency, Florida USA