

Supplementary Materials: First Report of Domoic Acid Production from *Pseudo-nitzschia multistriata* in Paracas Bay (Peru)

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Table S1. Accurate mass and mass deviation (ppm) of domoic acid and its main fragments.

Ion	Theoretical Mass	Experimental Mass	Delta (ppm)
[M+H] ⁺	312.1447	312.1449	0.64
[M+H-H ₂ O] ⁺	294.1342	294.1332	−3.39
[M+H-CH ₂ O ₂] ⁺	266.1392	266.1384	−3.00
[M+H-CH ₄ O ₃] ⁺	248.1287	248.1277	−4.03
[M+H-C ₂ H ₄ O ₄] ⁺	220.1338	220.1329	−4.09

Table S2. Comparison of morphometric data between Peruvian strain of *Pseudo-nitzschia multistriata* with strains obtained from different locations around the world.

Apical Axis (μm) Length	Transapical Axis (μm) Width	Fibulae /10 μm	Stria /10 μm	Rows of Poroids	Poroids /1 μm	Band Striae /10 μm	VC/ Stria /10 μm	References
40–48	2.3–3.23	24–28	40–42	2–3	8–13			Paracas Bay, Peru
55–65	3.1–3.6	23–26	37–42	2 (rarely 1 or 3)	5–6			Fukukoka Bay, Japan [1]
44–78	2.8–4	22–29	34–42	2–3	9–13		45–50	Western North Pacific, Peter the Great Bay, Sea of Japan in the coastal waters of Sakhalin Island, Sea of Okhotsk [2]
	2.5–3.8	22–27	37–44		10–12			Sea of Japan [3]
47–53	2.3–3.2	24–29		2	9–12			Tokyo bay [4]
45–78	2.3–4	25–29	32–40	2	9–12		45–46	Amursky Bay, Sea of Japan [5]
37–53	3.4–3.8	25–29		2	10–12			Guangdong coastal waters, South China Sea [6]
58–60	2.5	22–23		2–3	11			Vietnam [7]
43–91	1.4–2.5	23–25	38–40	2–3	11–12			Coasts of Malaysia [8]
	3.3–3.8	26–30	38–40	2 (3)	12			Singapore [9]
38–50	2.5–4	23–32	37–44	2 (rarely 1 or 3)	11–13			Tunisia [10,11]
36–50	2.7–4.1	22–26	36–42	2	9–10			Catalan coast (NW Mediterra- nean) [12,13]
51–70	2.7–3	24–26	36–39	2–3	10–11			Channels of Ria de Aveiro, Portugal[14]
–	2.8–3.6	24–28	38–45	2 (rarely 3)	10–15	48–51		Greek coastal waters [15]
60.2–70.3	3.3–3.8	26–30	38–40	2(3)	12			M'diq Bay, Morocco, Mediter- ranean Sea [16]
38–50	2.5–4	23–32	37–44	2 (rarely 1 or 3)	11–13			Gulf of Naples (Italy, Medi- terranean Sea) [17].
38–50	2.8–3.8	23–28	37–46	2	11–12			Gulf of Naples (Mediterra- nean sea) [18]
35–75	3–3.5	24–26	38–43					Gulf Naples [19]
30–60	2.2–4.6	24–28	34–45	2	7–13			Gulf of Trieste, Northern Adriatic Sea [20]
40.6–42.8	3–3.3							Western Adriatic Sea [21]
59–63	2.5–3	30	40	2 (rarely 3)	12			New Zealand [22]
26.3–63.7	2.2–3.9	20–30		2–3	11–12	55–60	2 × 2	Coastal waters of south-east- ern, Australia [23]
52–63	2.5–3.3	25–28	35–40	1–2	11–13			Southern cone of South America [24]
50–57.3	2.7–3.6	23–25	37–40	2	9–10			Manzanillo and Santiago Bay [25]

Table S3. List of sequences of *Pseudo-nitzschia*, *Fragilariopsis* and *Nitzschia* strains included in the molecular analysis. Species, locality, strain code and GenBank accession numbers for the ITS2 gene marker.

Species	Locality	Strain Code	GenBank Accession Number/Sequence Code
<i>Pseudo-nitzschia multistriata</i>	Paracas bay, Peru	IMP-BG 440	MZ312514
<i>Fragilariopsis cylindricus</i>	Gulf of St. Lawrence, Anticosti gyre, 49°43' N, 66°15' W, Artic	F_cyl	EF660055
<i>Fragilariopsis nana</i>	49°S, 2°E, Antartic	PA plate12A4	EF660060
<i>Fragilariopsis nana</i>	Ross Sea, 74°0'2''S 140°0'76''W, Ice, Antarctic	2-E-F	EF660058
<i>Fragilariopsis nana</i>	Weddell Sea, ice, Antartica	ErikaFcyl	EF660059
<i>Fragilariopsis</i> sp.	NL-2010 Twin Harbor, Washington, USA	Rita9	GU170665
<i>P. heimii</i> / <i>P. subpacific</i>	Bilbao estuary (43°35' N, 3°05' W), Spain	Ner-1D	KC409107
<i>Pseudo-nitzschia abrensis</i>	Bay of Biscay, Atlantic Ocean	NerJ3	KC409109
<i>Pseudo-nitzschia abrensis</i>	Bay of Biscay, Atlantic Ocean	NerJ2	KC409108
<i>Pseudo-nitzschia abrensis</i>	Krokop, Miri, Sarawak, Malaysia	Pnmi19	KR021327
<i>Pseudo-nitzschia abrensis</i>	Rait, Miri, Sarawak, Malaysia	Pnmi168	KR021324
<i>Pseudo-nitzschia americana</i>		Pseud_amer	
<i>Pseudo-nitzschia americana</i>	France	Kervel	EU523099
<i>Pseudo-nitzschia arctica</i>	Beaufort Sea, Canada	RCC2002	KT808253
<i>Pseudo-nitzschia arctica</i>	Beaufort Sea, Canada	RCC2005	KT808255
<i>Pseudo-nitzschia arenysensis</i>	Nervion River Estuary, Spain	NerD1	GQ228393
<i>Pseudo-nitzschia arenysensis</i>	Gulf of Naples, Italy, Mediterranean Sea	AL-24	DQ813830
<i>Pseudo-nitzschia arenysensis</i>	Arenys, Spain	ICMB129	EU367951
<i>Pseudo-nitzschia australis</i>	station LY1 (Lynn of Lorne), western Scottish waters, Scotland, UK	PLYSt19A	AY452527
<i>Pseudo-nitzschia australis</i>	Monterey Bay, California, USA	Au43	DQ062661
<i>Pseudo-nitzschia australis</i>	Santa Cruz Wharf, California, USA	Pn15	KC329501
<i>Pseudo-nitzschia batesiana</i>	Teluk Batik, Perak, Malaysia	PnTb19	KC147514
<i>Pseudo-nitzschia batesiana</i>	Marina Bay, Miri, Sarawak, Malaysia	Pnmi02	KR021328
<i>Pseudo-nitzschia batesiana</i>	Miri, Sarawak, Malaysia	PnMi32	KX572953
<i>Pseudo-nitzschia bipertita</i>	Miri, Sarawak, Malaysia	Pnmi13	KR021320
<i>Pseudo-nitzschia bipertita</i>	Miri, Sarawak, Malaysia	Pnmi04	KR021318
<i>Pseudo-nitzschia bipertita</i>	Miri, Sarawak, Malaysia	Pnmi18	KR021319
<i>Pseudo-nitzschia brasiliiana</i>	Samariang Batu, Sarawak, Malaysia	PnSm07	HQ111404
<i>Pseudo-nitzschia brasiliiana</i>	Kota Kinabalu, Sabah, Malaysia	PnKk31	JN252429
<i>Pseudo-nitzschia bucculenta</i>	Namibia	L2.6	MH376339
<i>Pseudo-nitzschia bucculenta</i>	Namibia	L1.3	MH376341
<i>Pseudo-nitzschia bucculenta</i>	Namibia	L1.1	MH376340

<i>Pseudo-nitzschia caciantha</i>	Do Son, North Vietnam	DS2	AY257856
<i>Pseudo-nitzschia caciantha</i>	Near Tuxpam, Mexico	Mex20	AY257861
<i>Pseudo-nitzschia caciantha</i>	Sibu Laut, Sarawak, Malaysia	PnSL03	KF482055
<i>Pseudo-nitzschia caciantha</i>	Sibu Laut, Sarawak, Malaysia	PnSL05	KF482056
<i>Pseudo-nitzschia caciantha</i>	Gulf of Naples, Italy, Mediterranean Sea	AL-56	DQ813834
<i>Pseudo-nitzschia calliantha</i>	Gulf of Naples, Italy, Mediterranean Sea	AL-112	DQ813841
<i>Pseudo-nitzschia</i> cf. <i>sub-pacifica</i>	Limens, Spain	Limens8	AY257859
<i>Pseudo-nitzschia</i> cf. <i>sub-pacifica</i>	Costa Nova, Portugal	P-28	AY257858
<i>Pseudo-nitzschia circumpora</i>	Santubong, Sarawak, Malaysia	PnSb58	JN252430
<i>Pseudo-nitzschia cuspidata</i>	Tenerife, Canary Islands, Spain	Tenerife8	AY257853
<i>Pseudo-nitzschia cuspidata</i>	Washington, USA	NWFSC189	KX572955
<i>Pseudo-nitzschia cuspidata</i>	Washington, USA	NWFSC190	JN091757
<i>Pseudo-nitzschia cuspidate</i>	St. John Island, Singapore	PnSg10	KX572957
<i>Pseudo-nitzschia cuspidata</i>	Near Tuxpam, Mexico	Mex12	AY257852
<i>Pseudo-nitzschia cuspidata</i>	Bondi Beach, Sydney, Australia	Sydney1	AY257862
<i>Pseudo-nitzschia cuspidata</i>	Gulf of Naples, Italy, Mediterranean Sea	AL-17	DQ813827
<i>Pseudo-nitzschia decipiens</i>	Kota Kinabalu, Sabah, Malaysia	PnKk38	KP337355
<i>Pseudo-nitzschia decipiens</i>	Tuxpam, Gulf of Mexico, Mexico	Mex13	DQ336156
<i>Pseudo-nitzschia decipiens</i>	Canary Islands, Spain	GranCan4-1	DQ336157
<i>Pseudo-nitzschia delicatissima</i>	Hobart, Tasmania, Australia	Tasm_10	AY257848
<i>Pseudo-nitzschia delicatissima</i>	Ràpita, Catalunya, Spain	ICMB-102	EU478793
<i>Pseudo-nitzschia delicatissima</i>	Gulf of Naples, Italy, Mediterranean Sea	AL-22	DQ813829
<i>Pseudo-nitzschia dolorosa</i>	Monterey Bay, California, USA	Calif1	DQ336152
<i>Pseudo-nitzschia dolorosa</i>	Gulf of Naples, Italy, Mediterranean Sea	AL-59	DQ813835
<i>Pseudo-nitzschia fraudulenta</i>	Limens, Spain	Limens1	AY257840
<i>Pseudo-nitzschia fraudulenta</i>	Arenys, Cataluña, Spain	ICMB-105 (AR3)	DQ990366
<i>Pseudo-nitzschia fraudulenta</i>	French Coast	F10	EU523102
<i>Pseudo-nitzschia fryxelliana</i>	Washington State, USA	NWFSC41	JN050288
<i>Pseudo-nitzschia fryxelliana</i>	Washington State, USA	NWFSC42	JN050287
<i>Pseudo-nitzschia fukuyoi</i>	Marina Bay, Miri, Sarawak, Malaysia	Pnmi158	KR021317
<i>Pseudo-nitzschia fukuyoi</i>	Kota Kinabalu, Sabah, Malaysia	PnKk36	KC147515
<i>Pseudo-nitzschia fukuyoi</i>	Teluk Batik, Perak, Malaysia	PnTb25	KC147516
<i>Pseudo-nitzschia galaxiae</i>	Near Tuxpam, Mexico	Mex23	AY257850
<i>Pseudo-nitzschia galaxiae</i>	Greece	10_4A3	JF714915
<i>Pseudo-nitzschia galaxiae</i>	P. Olympic, Catalunya, Spain	ICMB173	EU327368
<i>Pseudo-nitzschia galaxiae</i>	Australia	Sydney4	DQ336158
<i>Pseudo-nitzschia granii</i>	Ocean Station Papa (50 N, 145 W)	UBC100	EU051654

<i>Pseudo-nitzschia granii</i>	Cruise MALINA, sampling station PAC060709A, North East Pacific	RCC2273	KT948061
<i>Pseudo-nitzschia hasleana</i>	Washington State, USA	NWFSC252	JN085962
<i>Pseudo-nitzschia hasleana</i>	Hawkesbury River (-33°33'S, 151°18'E), Australia	HAWK3/1	KC017450
<i>Pseudo-nitzschia heimii</i>		NWFSC205	JN091762
<i>Pseudo-nitzschia inflatula</i>	Phuket, Thailand	no7	DQ329204
<i>Pseudo-nitzschia kodamae</i>	Port Dickson, Negeri Sembilan, Malaysia	PnPd26	KF482050
<i>Pseudo-nitzschia kodamae</i>	Port Dickson, Negeri Sembilan, Malaysia	PnPd31	KF482051
<i>Pseudo-nitzschia limii</i>	Rait, Miri, Sarawak, Malaysia	Pnmi06	KR021313
<i>Pseudo-nitzschia limii</i>	Rait, Miri, Sarawak, Malaysia	Pnmi16	KR021311
<i>Pseudo-nitzschia lundholmiae</i>	Teluk Batik, Perak, Malaysia	PnTb10	KC147523
<i>Pseudo-nitzschia lundholmiae</i>	Krokop, Miri, Sarawak, Malaysia	Pnmi28	KR021316
<i>Pseudo-nitzschia lundholmiae</i>	Teluk Batik, Perak, Malacca Strait, Malaysia	PnTb01	KC147522
<i>Pseudo-nitzschia mannii</i>	Pesaro, Adriatic Sea, Italy	CBA56	HE650977
<i>Pseudo-nitzschia mannii</i>	Gulf of Naples, Italy, Mediterranean Sea	AL-101	DQ813839
<i>Pseudo-nitzschia mannii</i>	Thermaikos Gulf, Greece	(08)10A2	JF714905
<i>Pseudo-nitzschia micropora</i>	Van Phong Bay, Vietnam	VPB_B3	AY257847
<i>Pseudo-nitzschia micropora</i>	Kota Kinabalu, Sabah, Malaysia	PnKk14	JN252422
<i>Pseudo-nitzschia multiseries</i>	Monterey Bay, California, USA	Mu3	AY257844
<i>Pseudo-nitzschia multiseries</i>	Ofunato Bay, Japan	OFPM984	DQ062664
<i>Pseudo-nitzschia multistriata</i>	Tarragona, Catalonia, Spain	ICMB-113(CM1)	DQ990367
<i>Pseudo-nitzschia multistriata</i>	Port hacking, New South Wales, Australia	PH25C	KC017470
<i>Pseudo-nitzschia multistriata</i>	Tarragona, Catalonia, Spain	ICMB-115 (CM3)	DQ990369
<i>Pseudo-nitzschia multistriata</i>	Gulf of Naples, Italy	A/B3	EF636680
<i>Pseudo-nitzschia multistriata</i>	Rait, Miri, Sarawak, Malaysia	Pnmi07	KR021314
<i>Pseudo-nitzschia multistriata</i>	43°12'00" N, 131°54'50" E; Northwestern Sea of Japan	MBRU_PMS-11	KT247441
<i>Pseudo-nitzschia multistriata</i>	Chin Hae Bay, South Korea	KoreaA	AY257843
<i>Pseudo-nitzschia multistriata</i>	Thermaikos Gulf, Greece	(07)12A2	JF714926
<i>Pseudo-nitzschia multistriata</i>	Gulf of Naples, Italy	B5	EF636677
<i>Pseudo-nitzschia multistriata</i>	Taiwan Strait (Station B1), China	MC4173	MK411976
<i>Pseudo-nitzschia multistriata</i>	Aveiro lagoon, Portugal	Alfa 5	EU684237
<i>Pseudo-nitzschia cf. obtusa</i>	Tromsø, Norway	T5	DQ062667
<i>Pseudo-nitzschia plurisecta</i>	Bay of Biscay, Spain, Atlantic Ocean	Ner-G4	KC409088
<i>Pseudo-nitzschia plurisecta</i>	Bay of Biscay, Spain, Atlantic Ocean	Ner-J6	KC409091
<i>Pseudo-nitzschia plurisecta</i>	Bay of Biscay, Spain, Atlantic Ocean	Ner-F1	KC409089

<i>Pseudo-nitzschia plurisecta</i>	Gulf of Maine	En345-153B5	KF006829
<i>Pseudo-nitzschia plurisecta</i>	Tasmania, Australia	Hobart5	AY257851
<i>Pseudo-nitzschia pseudodelicatissima</i>	Thermaikos Gulf, Greece	9A1	FJ859050
<i>Pseudo-nitzschia pseudodelicatissima</i>	Gulf of Naples, Italy, Mediterranean Sea	AL-15	DQ813826
<i>Pseudo-nitzschia pseudodelicatissima</i>	Nervion River Estuary, Bay of Biscay, Northern Spain	Ner_D5	GQ228392
<i>Pseudo-nitzschia pungens</i>	Santubong, Sarawak, Malaysia	PnSb44	HQ111413
<i>Pseudo-nitzschia pungens</i>	MuaraTebas, Sarawak, Malaysia	PnMt45	HQ111412
<i>Pseudo-nitzschia sabit</i>	Manzanillo Bay, Colima Mexico	Ps147	KP288507
<i>Pseudo-nitzschia sabit</i>	Port Dickson, Negeri Sembilan, Malaysia	PnPd57	KM400610
<i>Pseudo-nitzschia sabit</i>	Port Dickson, Negeri Sembilan, Malaysia	PnPd68	KM400604
<i>Pseudo-nitzschia sabit</i>	Manzanillo Bay, Colima Mexico station LY1 (Lynn of Lorne),	Ps102	KP288506
<i>Pseudo-nitzschia seriata</i>	western Scottish waters, Scotland, UK	PLYSt52B	AY452524
<i>Pseudo-nitzschia seriata</i>	Nisum Bredning, Denmark	Nisum3	AY257841
<i>Pseudo-nitzschia simulans</i>	Taiwan Strait, East China Sea	MC984	MF374772
<i>Pseudo-nitzschia simulans</i>	Qingdao, Yellow Sea	MC282	MF374770
<i>Pseudo-nitzschia simulans</i>	Daya Bay, South China Sea	MC281	MF374769
<i>Pseudo-nitzschia simulans</i>	Wanshan Island, South China Sea	MC940	MF374771
<i>Pseudo-nitzschia subcurvata</i>	Ross Sea, Antarctic	1-F	DQ329205
<i>Pseudo-nitzschia subfraudulenta</i>	Krokop, Miri, Sarawak, Malaysia	Pnmi71	KR021299
<i>Pseudo-nitzschia subfraudulenta</i>	Marina Bay, Miri, Sarawak, Malaysia	Pnmi170	KR021298
<i>Pseudo-nitzschia subfraudulenta</i>	Thermaikos Gulf, Greece	(08)8A3	JF714929
<i>Pseudo-nitzschia subpacific</i>	South Korea	HY32E1	LC194952
<i>Pseudo-nitzschia turgidula</i>	North East Pacific Ocean	NWFSC220	JN091764
<i>Pseudo-nitzschia turgiduloides</i>	Ross Sea, Antarctic	3-19	AY257839
<i>Nitzschia longissima</i>	Shilaoren Bay, China	33	KJ671772

Bolded sequence indicates the sequence contributed from this study.

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