



List of Okadaic Acid Group Reference Materials Commercially Available

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3. OKADAIC ACID GROUP

Enzo Life Sciences				
Web page: http://www.enzolifesciences.com				
Name	Sales Name	Concentration	Amount	Comments
<i>Okadaic Acid</i>				
Okadaic acid	ALX-350-003	Purity (HPLC,TLC) ≥98 %	25 µg 50 µg 100 µg 1 mg	Isolated from Prorocentrum Sp. White crystalline solid. Soluble in DMSO (40 mg/ml), 100% ethanol (5 mg/ml), and 100% methanol. Not certified.
Okadaic acid, Ammonium salt	ALX-350-010	Purity (TLC) ≥98 %	25 µg 100 µg 1 mg	Isolated from Prorocentrum concavum High purity. White to off-white solid. Soluble in ethanol or methanol. Not certified
Okadaic acid, Sodium salt	ALX-350-011	Purity (TLC) ≥98 %	25 µg 100 µg 1 mg	Isolated from Prorocentrum Sp. White to off-white solid. Soluble in ethanol or methanol. Not certified.
Okadaic acid, Potassium salt	ALX-350-063	Purity (HPLC) ≥98 %	50 µg 100 µg 1 mg	Isolated from Prorocentrum concavum. High purity. White to off-white solid. Soluble in DMSO, 100% ethanol, methanol, acetone, ethyl acetate or distilled water. Not certified

Laboratorio CIFGA S.A.				
Av. Benigno Rivera 56, 27003, Lugo, Spain - Tel.: (+34) 982 816 715				
Email: info@cifga.com /				
Website: http://www.cifga.es/				
Name	Sales Name	Concentration	Amount	Comments
<i>Okadaic Acid</i>				
Okadaic acid	CRM-02-OA Lot: 22-001	15.6± 0.9 µg/g Purity ≥ 99%	6 µg	Liquid. In methanol
7-O-Palmitoyl Okadaic Acid	CRM-02-DTX3a Lot: 17-001	7.97 ± 0.48 µg/g Purity ≥ 97.0%	3 µg	Liquid. In methanol
Mussel matrix with DSP toxins	Mussel-DSP-2 Lot: 14-001	[OA] = (361 ± 34) µg·kg ⁻¹ [DTX-1] = (206± 19) µg·kg ⁻¹ [DTX-3] = (283 ± 61) µg·kg ⁻¹	4 g	Homogenized slurry mussel tissue
<i>Dinophysistoxins</i>				
DTX1	CRM-00-DTX1 Lot: 21-001	8.85 ± 0.49 µg/g Purity ≥96.0%	3.5µg	Solution of dinophysistoxin-1 in methanol
DTX2	CRM-02-DTX2 Lot: 19-001	4.3 ± 0.3 µg/g Purity ≥98.0%	1.7 µg	Solution of dinophysistoxin-2 in methanol

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AXXORA, LLC 10 Executive Blvd - Farmingdale, NY 11735 Tel: 858-550-8830 Fax: 858-550-8825 E-mail: axxora-usa@axxora.com Web Site: https://www.axxora.com				
Name	Sales Name	Concentration	Amount	Comments
<u>Okadaic Acid</u>				
Okadaic acid	LKT-O4101	Purity ≥98 %	100 µg 1 mg	Soluble in DMSO, ethanol, or methanol. Not certified
Okadaic acid, Ammonium salt	LKT-O4102	Purity ≥98 %	25 µg 100 µg 1 mg	Soluble in ethanol, DMSO, water. Not certified
Okadaic acid, Sodium salt	LKT-O4104	Purity ≥98 %	25 µg 100 µg 1 mg	Soluble in ethanol, DMSO, water. Not certified
Okadaic acid	ALX-350-003	Purity (HPLC/TLC) ≥98 %	25 µg 50 µg 100 µg 1 mg	Isolated from <i>Prorocentrum</i> Sp. White crystalline solid. Soluble in DMSO (40 mg/ml), 100% ethanol (5 mg/ml), and 100% methanol. Not certified
Okadaic acid, Ammonium salt	ALX-350-010	Purity (TLC) ≥98 %	25 µg 100 µg 1 mg	Isolated from <i>Prorocentrum concavum</i> High purity – White to off-white solid. Soluble in ethanol or methanol. Not certified
Okadaic acid, potassium salt	ALX-350-063	Purity (HPLC) ≥98 %	50 µg 100 µg 1 mg	Isolated from <i>Prorocentrum concavum</i> . High purity. White to off-white solid. Soluble in DMSO, 100% ethanol, methanol, acetone, ethyl acetate or distilled water. Dissolve first in organic solvent before diluting in water. Not certified
Okadaic acid, sodium salt	ALX-350-011	Purity (TLC) ≥98 %	25 µg 100 µg 1 mg	Isolated from <i>Prorocentrum</i> sp. White to off-white solid. Soluble in ethanol or methanol. Not certified.
Okadaol	ALX-350-065-C100	Purity ≥90 %	100 µg	Semisynthetic derivative of okadaic acid. Okadaic acid isolated from <i>Prorocentrum lima</i> . Soluble in methanol or DMSO.

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National Research Council Canada, NRC-CNRC 1411 Oxford Street. Halifax, Nova Scotia B3H 3Z1 Canada Tel.: 1-902 426-8281 / Fax: 1-902 426-5426 Email: CRM-MRCBiotoxin-Biotoxines@nrc-cnrc.gc.ca // CRM-MRCHalifax@nrc-cnrc.gc.ca Website: https://nrc.canada.ca/en/certifications-evaluations-standards/certified-reference-materials/list				
Name	Sales Name	Concentration	Amount	Comments
<u>Okadaic Acid</u>				
Okadaic acid	CRM-OA-d	10.6 ± 0.5 µg/g	0.5 mL	Solution of okadaic acid in methanol
Okadaic acid, DTX1, DTX2, DA	CRM-DSP-Mus-c	1.07 µg/g OA, 1.07 µg/g DTX1 0.86 µg/g DTX2 11.8 µg/g DA	4 g	Homogenate of mussel tissue (<i>Mytilus edulis</i>) and a small amount of the dinoflagellate <i>Prorocentrum lima</i>
<u>Dinophysistoxins</u>				
DTX1	CRM-DTX1-c	9.8 ± 0.6 µg/g	0.5 mL	Solution of dinophysistoxin-1 in methanol
DTX2	CRM-DTX2-c	4.86 ± 0.23 µg/g	0.5 mL	Solution of dinophysistoxin-2 in methanol

LC Laboratories 165 New Boston Street. Woburn, MA 01801 Tel.: +1 781 937 0777/ Fax: +1 781 938 5420 Toll Free: +1-800-937-3720 (US, Canada) Email: CustServ@LCLabs.com Web page: http://www.lclabs.com				
Name	Sales Name	Concentration	Amount	Comments
<u>Okadaic Acid</u>				
Okadaic acid, free acid	O-2220	Purity >98 %	50 µg 100 µg 300 µg 1 mg 5 mg	Halochondria A
Okadaic acid, Sodium salt	O-5857	Purity >98 %	50 µg 100 µg 300 µg 1 mg 5 mg	Halochondria A, sodium salt
Okadaic acid, Potassium salt	O-7519	Purity >98 %	50 µg 100 µg 1 mg 5 mg	Halochondria A, potassium salt
Okadaic Acid, Ammonium Salt	O-6410	Purity >98 %	10 µg 25 µg 50 µg 100 µg 1 mg 5 mg	Halochondria A, ammonium salt

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Sigma Aldrich				
Web page: http://www.sigmaaldrich.com				
Name	Sales Name	Concentration	Amount	Comments
<u>Okadaic Acid</u>				
Okadaic acid potassium salt from <i>Prorocentrum concavum</i>	O7885	≥90% (HPLC)	10 µg 25 µg 50 µg	Solubility: H ₂ O: 0.1 mg/MI DMSO: soluble Ethanol: soluble Not Certified
Okadaic acid from <i>Prorocentrum concavum</i>	O9381	92-100% (HPLC)	25 µg 0.1 mg	Solubility DMSO: ≥1 mg/mL Ethanol: ≥1 mg/mL Methanol: ≥1 mg/mL Not Certified
Okadaic acid ammonium salt from <i>Prorocentrum concavum</i>	O8010	≥90% (HPLC)	10 µg 25 µg 50 µg	Solubility: H ₂ O: 0.1 mg/mL DMSO: soluble Ethanol: soluble Not Certified
Okadaic acid sodium salt from <i>Prorocentrum concavum</i>	O7760	≥90% (HPLC)	10 µg 25 µg 50 µg	Solubility: 0.1% acetic acid in CH ₃ CN: H ₂ O (1:1): 250 µg/mL, clear, colorless. Not Certified
Okadaic acid solution	39302	20 µg/g	0.5 mL	In methanol
Okadaic acid, ammonium salt	459616	≥98% (TLC)	25 µg	Solubility: water: 1 mg/mL DMSO: 20 mg/mL ethanol: 20 mg/mL
Okadaic acid, Potassium salt	459618	≥95% (HPLC)	50 µg	Solubility: water: 1 mg/mL DMSO: 20 mg/mL ethanol: 20 mg/mL
Okadaic acid, <i>Prorocentrum sp.</i>	495604	≥95% (HPLC)	25 µg 100 µg 500 µg	Solubility: DMF: soluble Chloroform: soluble Ethanol: soluble Methanol: soluble
Okadaic Acid, Sodium Salt	459620	≥98% (TLC)	25 µg	Solubility: water: 1 mg/mL DMSO: 20 mg/mL ethanol: 20 mg/mL
InSolution Okadaic Acid, <i>Prorocentrum sp.</i>	495609	≥95% (HPLC)	25 µg	A 250 µM (25 µg/124 µl) solution of Okadaic Acid, in DMSO
Okadaic Acid (sodium salt)	19-130		100 µg	Solid

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Novakits 40 Boulevard Jean Ingres – 44100 NANTES Tél : 09 61 58 14 40 – Fax : 02 40 37 57 95 Email: info@novakits.com Website: www.novakits.com				
Name	Sales Name	Concentration	Amount	Comments
<i>Okadaic Acid</i>				
Acide okadaïque	NRC-CRM-OA	18.1 µg/g	0.5 mL	
Mussel tissue	NRC-CRM-DSP-MUS	[OA]: 10.1 µg/g	4 g	
<i>Dinophysistoxins</i>				
Dinophysis toxine 1	NRC-CRM-DTX1	19.2 µg/g	0.5 mL	
Dinophysis toxine 2	NRC-CRM-DTX2	9.9 µg/g	0.5 mL	
Mussel tissue	NRC-CRM-DSP-MUS	[DTX]: 11.3 µg/g	4 g	

Fisher scientific C/ Anabel Segura, 16. Edif.2. Planta 3 Centro Empresarial Vega Norte 28108 - Alcobendas (Madrid), ESPAÑA Tel : +34 913806710 Website: https://www.fishersci.es/es/es/home.html				
Name	Sales Name	Concentration	Amount	Comments
Okadaic Acid, 98% Thermo Scientific Chemicals	15422979	98%	50 µg 100 µg 300 µg	Powder. It is soluble in ethanol (25mg/ml), DMSO (25mg/ml), methanol (<1mg/ml), chloroform, acetone, ethyl acetate, DMF, and dimethylsulfoxide. Insoluble in water, unless first dissolved in organic solvents, such as DMSO or ethanol.

Biomol GmbH Kieler Straße 303a 22525 Hamburg Germany Phone: +49 (0)40 8532600 0800 2466651 Toll-free in Germany Email: info@biomol.com Website: https://www.biomol.com/				
Name	Sales Name	Concentration	Amount	Comments
Okadaic Acid	Cay10011490		25 µg 50 µg 100 µg	
Dinophysitoxin-1	Cay10011497-100	≥95%	100 µg	