

Article list about the CRM manufacture

International Journal

CRM No.	論文タイトル	雑誌、巻(号)、頁(出版年)	著者名	DOI
NIES CRM No.10-a,b,c Rice Flour	Preparation and certification of rice flour-unpolished reference material	Sci. Total Environ., 107, 29-44 (1991)	K. Okamoto	DOI 10.1016/0048-9697(91)90248-D
NIES CRM No.11 Fish Tissue	Isotope dilution/inductively coupled plasma mass spectrometric determination of total tin in NIES fish tissue reference material	Spectrochim. Acta Part B: At. Spectrosc., 46, 12, 1615-1622 (1991)	K. Okamoto	DOI 10.1016/0584-8547(91)80165-Y
NIES CRM No.12 Marine Sediment	Element Concentrations in NIES Candidate Marine Sediment Certified Reference Material. Reference Values for Major and trace Elements	Anal. Sci., 12, 993-995 (1996)	J. Yoshinaga, A. Tanaka, T. Takamatsu, M. Morita, K. Okamoto	DOI 10.2116/analsci.12.993
	Marine Sediment Certified Reference Material for Tin Speciation	Anal. Sci., 14, 1121-1125 (1998)	J. Yoshinaga, A.Tanaka, T. Takamatsu, M. Morita, K. Okamoto	DOI 10.2116/analsci.14.1121
	Determination of total tin in sediment reference materials by isotope dilution inductively coupled plasma mass spectrometry after alkali fusion	Analyst, 124, 257-261 (1999)	J.Yoshinaga, A.Nakama, K.Takata	DOI 10.1039/A807515H
NIES CRM No.13 Human Hair	New human hair certified reference material for methylmercury and trace elements	Frasenius J. Anal. Chem., 357, 279-283 (1997)	J. Yoshinaga, M. Morita, K. Okamoto	DOI 10.1007/s002160050153
	Determination of Hg isotopic compositions in certified reference material NIES No. 13 Human Hair by cold vapor generation multi-collector inductively coupled plasma mass spectrometry	Accred. Qual. Assur., 21, 197-202 (2016)	A. Yamakawa, A. Takeuchi, Y. Shibata, S. Berail, O. F. X. Donard	DOI 10.1007/s00769-016-1196-x
NIES CRM No.15 Scallop	Analysis of triorganotin compounds in water samples by hydrophilic interaction liquid chromatography-electrospray ionization-mass spectrometry	J. Chromatogr. A, 1217, 4344-4346 (2010)	T. Sano, H. Takagi, K. Nagano, M.Nishikawa	DOI 10.1016/j.chroma.2010.04.046
NIES CRM No.18 Human Urine	Human urine certified reference material for arsenic speciation	Clin. Chem., 46, 1781-1786 (2000)	J.Yoshinaga, A. Chatterjee, Y. Shibata, M. Morita, J. S. Edmonds	DOI 10.1093/clinchem/46.11.1781
	Estimation of arsenobetaine in the NIES candidate reference material no.18 human urine by HPLC-ICP-MS using different chromatographic conditions	Appl. Organomet. Chem., 15, 306-314 (2001)	A. Chatterjee, Y. Shibata, J. Yoshinaga, M. Morita	DOI 10.1002/aoc.142
NIES CRM No.22 Fish Otolith	Fish otolith reference material for quality assurance of chemical analyses	Mar. Chem., 69, 91-97 (2000)	J. Yoshinaga, A. Nakama, M. Moritaa, J. S. Edmonds	DOI 10.1016/S0304-4203(99)00098-5
	Determination of copper, zinc, cadmium and lead in a fish otolith certified reference material by isotope dilution inductively coupled plasma mass spectrometry using off-line solvent extraction	J. Anal. At. Spectrom. 14, 1589-1592 (1999)	J. Yoshinaga, M. Morita, J.S. Edmonds	DOI 10.1039/A904572D

NIES CRM No.23 Tea Leaves II	Characterization of NIES CRM No.23 Tea Leaves II for the determination of multielements	Anal. Bioanal. Chem., 397, 463-470 (2010)	I. Mori, M. Ukachi, K.Nagano, H. Ito, J. Yoshinaga, M. Nishikawa	DOI 10.1007/s00216-009-3290-y
NIES CRM No.26 Water Bloom	NIES certified reference material for microcystins, hepatotoxic cyclic peptide toxins from cyanobacterial blooms in eutrophic water bodies	Anal. Bioanal. Chem., 391, 2005-2010 (2008)	T. Sano, H. Takagi, M. Nishikawa, K. Kaya	DOI 10.1007/s00216-008-2040-x
NIES CRM No.27 Typical Japanese Diet	Certified Reference Material for Analytical Quality Assurance of Minor and Trace Elements in Food and Related Matrixes Based on a Typical Japanese Diet: Interlaboratory Study	J. AOAC Int., 84, 1202-1208 (2001)	J. Yoshinaga, M. Morita, M. Yukawa, K. Shiraishi, H.Kawamura	DOI 10.1093/jaoac/84.4.1202
NIES CRM No.28 Urban Aerosols	Development and certification of the new NIES CRM 28: urban aerosols for the determination of multielements	Anal. Bioanal. Chem., 391, 1997-2003 (2008)	I. Mori, Z. Sun, M. Ukachi, K. Nagano, C. W. McLead, A. G. Cox, M. Nishikawa	DOI 10.1007/s00216-008-2076-y
	Hg isotopic composition and total Hg mass fraction in NIES Certified Reference Material No. 28 Urban Aerosols	Anal. Bioanal. Chem., 412, 4483-4493 (2020)	A. Yamakawa, S. Bérail, D. Amourou, E. Tessier, J. Barre, T. Sano, K. Nagano, S. Kanwal, J. Yoshinaga, O. F. X. Donard	DOI 10.1007/s00216-020-02691-9
NIES CRM No.30 Gobi Kosa dust	Preparation and chemical characterisation of an Asian mineral dust certified reference material	Anal. Methods, 5, 4088-4095 (2013)	M. Nishikawa, D. Batdorj, M. Ukachi, K. Onishi, K. Nagano, I. Mori, I. Matsui, T. Sano	DOI 10.1039/C3AY40435H
NIES CRM No.33 Landfill cover soil	Development and characteristics of a new certified reference material for landfill cover soil analysis with extraction using dilute hydrochloric acid	Anal. Methods, 12, 1896-1905 (2020)	M.Nishikawa, T.Sano, K. Nagano, M. Ukachi, K. Onishi, A. Yamakawa, A. Takeuchi, M. Hirano, I. Mori	DOI 10.1039/D0AY00174K

Japanese Journal

CRM No.	論文タイトル	雑誌、巻(号)、頁(出版年)	著者名	DOI
NIES CRM No.1 Pepperbush	環境標準試料NIES No.1「リュウブ」について	季刊環境研究, 30, 97-109 (1980)	岡本研作、不破敬一郎	
NIES CRM No.2 Pond Sediment	環境標準試料NIES No.2「池底質」について	季刊環境研究, 34, 125-138 (1981)	岡本研作、不破敬一郎	
NIES CRM No.3 Chlorella	環境標準試料NIES No.3「クロレラ」について	季刊環境研究, 42, 114-122 (1983)	岡本研作、不破敬一郎	
NIES CRM No.5 Human Hair	環境標準試料NIES No.5「頭髮」について	季刊環境研究, 55, 109-117 (1985)	岡本研作、森田昌敏、植弘崇嗣、不破敬一郎、全 浩	
NIES CRM No.6 Mussel	環境標準試料NIES No.6「ムラサキガイ」について	季刊環境研究, 50, 108-117 (1984)	岡本研作、不破敬一郎	
NIES CRM No.7 Tea Leaves	環境標準試料NIES No.7「茶葉」について	季刊環境研究, 62, 167-172 (1986)	岡本研作、不破敬一郎	
NIES CRM No.8 Vehicle Exhaust Particulates	環境標準試料NIES No.8「自動車排出粒子」について	季刊環境研究, 66, 124-133 (1987)	岡本研作	
NIES CRM No.9 Sargasso	環境標準試料NIES No.9「ホンダワラ」について	季刊環境研究, 71, 1-7 (1988)	岡本研作	
NIES CRM No.10-a,b,c Rice Flour	環境標準試料NIES No.10「玄米粉末」について	季刊環境研究, 74, 101-108 (1989)	岡本研作	