

Amount of substance, Food, United Kingdom, LGC (Laboratory of the Government Chemist)

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NMI Service Identifier	Measurement Service Category	Matrix	Measurand		Dissemination Range of Measurement Capability			Range of Expanded Uncertainties as Disseminated						Range of Certified Values in Reference Materials			Range of Expanded Uncertainties for Certified Value						Mechanism(s) for Measurement Service Delivery	Comments	
			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?			
Org-002a	Contaminants	corn oil	p,p'DDE	Mass fraction	0.08	10	µg/g	0.8	0.9	%	2	95%	Yes											Calibration	
Org-002b	Contaminants	fish oil	p,p'DDE	Mass fraction	0.08	10	µg/g	1.6	3.7	%	2	95%	Yes											Calibration	
Org-002c	Contaminants	fish oil	p,p'DDT or 1,1'-(2,2,2-trichloroethylidene)bis[4-chlorobenzene]	Mass fraction	0.3	10	µg/g	1.1	5.5	%	2	95%	Yes											Calibration	
Org-002d	Contaminants	fish oil	g-HCH or (1a,2a,3β,4a,5a,6β)-1,2,3,4,5,6-hexachlorocyclohexane	Mass fraction	0.01	10	µg/g	1	6	%	2	95%	Yes											Calibration	
Org-022	Other	wine and spirits	ethanol	Mass fraction	40	300	mg/g	0.2	0.5	%	2	95%	Yes											Calibration	Approved on 01 March 2005
Inorg-013	Contaminants	non-fatty tissue	lead	Mass fraction	0.5	50	µg/g	2	4	%	2	95%	Yes											Calibration	Approved on 01 March 2005
Inorg-014	Nutritional constituents	non-fatty and moderately fatty tissue	selenium	Mass fraction	0.5	100	µg/g	1	6.5	%	2	95%	Yes											Calibration	Approved on 02 November 2006
Inorg-015	Contaminants	non-fatty and moderately fatty tissue	methyl mercury	Mass fraction	0.08	100	µg/g	2	7	%	2	95%	Yes											Calibration	Approved on 02 November 2006
Inorg-024	Contaminants	non-fatty and moderately fatty tissue	mercury	Mass fraction	0.08	100	µg/g	2	4	%	2	95%	Yes											Calibration	Approved on 02 November 2006
Inorg-025	Contaminants	non-fatty and moderately fatty tissue	arsenic	Mass fraction	0.08	18	µg/g	5	8	%	2	95%	Yes											Calibration	Approved on 15 December 2008
Inorg-029	Contaminants	tomato paste	cadmium	Mass fraction	0.1	10	µg/g	1.0	3.5	%	2	95%	Yes	0.112	0.112	mg/kg	0.007	0.007	mg/kg	2.03	95%	No	Calibration, ERM-BC084	Approved on 02 July 2007	
Inorg-035	Nutritional constituents	potato powder	iodine	Mass fraction	0.8	8	µg/g	3.0	13.0	%	2	95%	Yes	1.86	1.86	mg/kg	0.24	0.24	mg/kg	2.1	95%	No	Calibration, ERM-BC402a	Approved on 02 July 2007	
Inorg-023	Contaminants	tomato paste	tin	Mass fraction	200	300	µg/g	0.6	1.5	%	2	95%	Yes	225	225	mg/kg	11	11	mg/kg	2.01	95%	No	Calibration, ERM-BC084	Approved on 02 July 2007	
Inorg-030	Contaminants	tomato paste	lead	Mass fraction	0.3	10	µg/g	0.5	3.0	%	2	95%	Yes	0.316	0.316	mg/kg	0.021	0.021	mg/kg	2.01	95%	No	Calibration, ERM-BC084	Approved on 01 February 2008	
Inorg-033	Contaminants	food and food supplements	selenium	Mass fraction	0.5	2000	µg/g	1	4	%	2	95%	Yes	17.23	342	µg/g	4.1	5.2	%	2	95%	Yes	CRMs (eg LGC7506 and ERM-BD212a) and reference values	Approved on 06 December 2011	

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			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?		
Inorg-034	Contaminants	food and food supplements	selenium methionine	Mass fraction	0.5	4000	µg/g	4	15	%	2	95%	Yes	27.41	588	µg/g	6.6	10	%	2	95%	Yes	CRMs (eg LGC7506 and ERM-BD212a) and reference values	Approved on 06 December 2011