

## 農畜産物・食物，植物 標準物質総合カタログ

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製品によっては、分析値の変更・在庫切れ・供給終了の発生もございますので  
詳細についてはお問い合わせ下さい。

製品の分析値についての不確かさ値は記載されておられません。  
また、本リストに記載されている値はいかなる保証をなすものではありません。  
あくまでご参考として下さい。

価格についてはオープン価格で行っておりますので、お手数でもお問合せ下さい。

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## 穀物関係

白米粉末 NMIJ CRM7501-a~7502-a (20g x 2本組み) 単位はmg/g			
7501-a(Cd Level I)		7502-a(Cd Level II)	
Cd	0.0517	Cd	0.548
Cr		Cr	0.075
Mn	6.75	Mn	11.2
Fe	4.04	Fe	4.48
Ni		Ni	0.390
Cu	2.49	Cu	3.02
Zn	20.1	Zn	26.0
As		As	0.109
Rb		Rb	1.77
Sr		Sr	0.068
Mo	0.556	Mo	0.79
Ba		Ba	0.137
Pb		Pb	0.0043
Na	5.3	Na	5.8
K	1190	K	1430
Mg	451	Mg	560
Ca	61	Ca	60
P	1500	P	1800

白米粉末 NMIJ CRM7503-a (20g) 単位はmg/g					
Mn	9.2	Zn	20.7	亜ヒ酸	0.0711
Fe	5.42	As	0.098	ヒ酸	0.0130
Cu	1.88	Cd	0.194	ジメチルアルチン酸	0.0133

Rice Flour SRM1568a (100% long grain rice from Arkansas) 80g 単位の無い値はmg/kg					
保証値 単位の無い値はμg/kg					
Al	4.4	Hg	0.0058	P	0.134%
As	0.29	K	0.1280%	Rb	6.14
Ca	0.0118%	Mg	0.056%	S	0.120%
Cd	0.022	Mn	20.0	Se	0.38
Cu	2.4	Mo	1.46	Zn	19.4
Fe	7.4	Na	6.1		
参考値 単位の無い値はmg/kg					
Sb	0.005	I	0.009	W	0.0012
Br	8	Pb	< 0.010	U	0.0003
Cl	300	Sn	0.0047	V	0.007

IRMM-804 Rice flour (15g)				
	保証値		不確かさ	
As	0.049		0.004	
Cd	1.61		0.07	
Cu	2.74		0.24	
Mn	34.2		2.3	
Pb	0.42		0.07	
Zn	23.1		1.9	

玄米粉末 NIES CRM#10 (60g x 3本組み)		単位の無い値は $\mu\text{g/g}$			
Cd低レベル		Cd中レベル		Cd高レベル	
P	0.340%	P	0.315%	P	0.335%
K	0.280%	K	0.245%	K	0.275%
Mg	0.134%	Mg	0.131%	Mg	0.125%
Ca	93	Ca	78	Ca	95
Mn	34.7	Mn	31.5	Mn	40.1
Zn	25.2	Zn	22.3	Zn	23.1
Fe	12.7	Fe	13.4	Fe	11.4
Na	10.2	Na	17.8	Na	14
Rb	4.5	Rb	3.3	Rb	5.7
Cu	3.5	Cu	3.3	Cu	4.1
Mo	0.35	Mo	0.42	Mo	1.6
Ni	0.19	Ni	0.39	Ni	0.3
Cd	0.023	Cd	0.32	Cd	1.82

参考値には次の元素記載あり : Cl, Al, Br, Sr, As, Cr, Se, Co, Hg

玄米粉末(カドミウム分析用) NMIJ CRM7531-a (20g)		単位はmg/g	
Mn	27.6	Zn	31.8
Fe	11.66	As	0.280
Cu	4.34	Cd	0.308

玄米(放射性セシウム分析用) NMIJ CRM7541-a (81g)		単位はBq/kg	
$^{134}\text{Cs}$	33.6		
$^{137}\text{Cs}$	51.8		
$^{134}\text{Cs} + ^{137}\text{Cs}$	85.4		

大豆粉末 NMIJ CRM7511-a (30g)		単位はmg/g	
Ca 0.276g/kg	P 0.74g/kg	Cd 0.147	Zn 57.8
K 1.86g/kg		Cu 11.8	
Mg 0.274g/kg		Fe 69.1	

Wheat Flour(小麦粉) SRM1567a 80g			
保証値 単位の無い値は $\mu\text{g/kg}$			
Al	5.7	K	0.133%
Ca	0.191%	Mg	0.040%
Cd	0.026	Mn	9.4
Cu	2.1	Mo	0.48
Fe	14.1	Na	6.1
参考値 単位は $\mu\text{g/kg}$			
As	0.006	I	0.0009
Br	6	Pb	<0.020
Cl	565	Hg	0.0005
Co	0.006	Sn	0.0033
		W	0.0008
		U	0.0003
		V	0.011

Rye Flour (ライ麦粉) ERM-BC381 37g		単位の無い値はg/100g	
N(Kjeldahl)	1.5620	Ca	0.32g/kg
Fat	1.360	K	3.35g/kg
Starch	72.2	Mg	0.567g/kg
Ash at 550°C	1.08	P	2.01g/kg

Wheat Flour ERM-BC382 37g 単位値はg/100g			
N(Kjeldahl)	1.851	Ca	0.210
Fat	1.39	K	1.88
Starch	81.2	Mg	0.247
Ash at 550°C	0.60	P	1.19

Rey flour (ライ麦粉) IAEA V-8 50g 単位の無い値はmg/kg					
Br	0.38	Fe	4.1	P	592
Ca	149	K	1925.0	Rb	0.48
Cl	570	Mg	121	Zn	2.53
Cu	0.95	Mn	2.06		

参考値には次の元素記載あり：Cd, Co, Na

IC-INCT-CF-3 Corn flour (50g)					
Certified values (単位の無いのはmg/kg)					
B	1.65 ± 0.33	La	6.6 ± 1.2 ng/kg	P	2831 ± 97
Br	0.388 ± 0.046	Sc	2.13 ± 0.32 ng/kg	Rb	0.912 ± 0.042
Cl	397 ± 33	Mg	1066 ± 37	S	919 ± 121
Cu	1.63 ± 0.13	Mn	4.98 ± 0.22	Zn	20.09 ± 0.76
Fe	32.0 ± 1.4	Mo	152 ± 12 ng/kg		
K	3157 ± 119	Ni	0.383 ± 0.039		

Indicative values for Al, As, Ba, Ca, Hg, Na, Pb, Sb

IAEA-155 Whey powder (50 g)					
Certified values (単位mg/kg)					
Br	39.1	Hg	0.0026	Pb	0.104
Cd	0.016	Mg	3190	Rb	39.2
Cl	69200	Mn	9.3	Sc	0.028
Co	0.0427	Na	15.8	Se	0.064
Cr	0.59	Ni	0.54	Zn	34.3
Cs	0.086	P	16210		

Indicative values for Al, As, B, Ca, Cu, Fe, K, S, Sr

### 遺伝子組み換え作物 (各製品毎のロットでの単品販売です)

Genetically modified Roundup Ready Soy beans ERM BF-410K (g/kg)			
content mass fraction genetically modified organisms	BF410aK	< 0.7	
	BF410bK	1.0	± 0.5
	BF410dK	10.0	± 1.0
	BF410gK	100	± 7

Genetically modified Roundup Ready Soy beans ERM BF-411		
Bt-176 maize content mass fraction genetically modified organisms	BF411a	<0.14 g /kg
	BF411b	1.00 g /kg
	BF411c	5.0 g /kg
	BF411d	10.0 g /kg
	BF411e	20.0 g /kg
	BF411f	50.0 g /kg

Genetically modified Roundup Ready Soy beans ERM BF-412	
Bt-11 maize content mass fraction genetically modified organisms	BF412a < 0.12 g/kg
	BF412b 0.98 g/kg
	BF412c 4.9 g/kg
	BF412d 9.8 g/kg
	BF412e 19.6 g/kg
	BF412f 48.9 g/kg

Genetically modified Roundup Ready Soy beans ERM BF-413K	
MON-810 maize content mass fraction genetically modified organisms	BF413aK < 0.9 g/kg
	BF413cK 4.9 g/kg
	BF413eK 19.8 g/kg
	BF413gK 99 g/kg

Cedrtified value MON810 DNA copy number raito(%)	
ERM-BF413eK	0.77

Genetically modified Roundup Ready Corn ERM BF-414	
GA21- maize content Roundup-Ready maize content	BF414a < 0.8 g/kg
	BF414b 1 g/kg
	BF414c 4.9 g/kg
	BF414d 9.9 g/kg
	BF414e 17.2 g/kg
	BF414f 42.9 g/kg

Genetically modified Roundup Ready Corn ERM BF-415	
NK603- maize content GM content	BF415a < 0.4 g/kg
	BF415b 1 g/kg
	BF415c 4.9 g/kg
	BF415d 9.8 g/kg
	BF415e 19.6 g/kg
	BF415f 49.1 g/kg

Cedrtified value NK603 maize DNA copy number raito(%)	
ERM-BF415eK	0.95

Genetically modified Crop MON863 Maize ERM BF-416	
MON863 maize GMO maize	BF416a < 0.1 g/kg
	BF416b 1.0 g/kg
	BF416c 9.8 g/kg
	BF416d 98.5 g/kg

Genetically modified Crop Stacked MON863 x MON810 Maize ERM BF-417	
MON863 x MON810 maize GMO maize	BF417a < 0.1 g/kg
	BF417b 1 g/kg
	BF417c 9.8 g/kg
	BF417d 98.5 g/kg

Genetically modified Crop 1507Maize ERM BF-418	
1570 maize GMO maize	BF418a < 0.5 g/kg
	BF418b 1 g/kg
	BF418c 9.9 g/kg
	BF418d 98.6 g/kg

Genetically modified modified H7-1 suger beet ERM BF-419	
certified value H7-1 suger beet mass fraction (g/kg)	BF419a 0
	BF419b 1000

Genetically modified modified EH92-5271 potato ERM BF-421	
certified value Number fraction of EH92-527-1 potato/total number of potatoes (%)	certified property identity
BF421a 0 BF421b 100	potato without the EH92-527-1 potato BF421b 100

Genetically modified 281-24-236 x 3006-210-23 cotton seed ERM BF-422	
Certified value 281-24-236 x 3006-210-23 cotton seed mass fraction (g/kg)	BF422a < 0.5 g/kg
	BF422b >979 g/kg
	BF422c 10.0 g/kg
	BF422d 100 g/kg

Genetically modified Corn ERM BF-423	
MIR604 mass fraction GMO, genetically modified oranisms	BF423a < 0.9 g/kg
	BF423b 1.0 g/kg
	BF423c 9.8 g/kg
	BF423d 98.5 g/kg

Dried soya seed powders with different mass fractions of genetically modified soya beans (g/kg)	
Soya seed powder- 356043	BF425a < 0.5
	BF425b 1.0 ± 0.4
	BF425c 10.0 ± 1.1
	BF425d 100 ± 9

Dried soya seed powders with different mass fractions of genetically modified soya beans (g/kg)	
Soya seed powder- 305423	BF426a < 0.58
	BF426b 5.0 ± 0.8
	BF426c 10 ± 1
	BF426d 100 ± 7

Dried maize powders with different mass fractions of genetically modified Event 3272 maize (g/kg)	
Event 3272 maize seed powder	BF420a < 1.3
	BF420b 9.8 ± 1.2
	BF420c 98 ± 8

genetically modified 59122 maize (ERM-BF424)			
Certified value 59122 maize mass fraction (g/kg)	BF424a	< 1.2	
	BF424b	1.0	-0.2; +1.2
	BF424c	9.9	-0.8; +1.4
	BF424d	98.7	- 5.8 ; + 5.9

## 草木関係

茶葉粉末 NMIJ CRM7505-a (20g)		単位はmg/g	
Ca	0.450%	Al	709
K	1.59%	B	19.7
Mg	0.301%	Ba	20.4
P	0.339%	Cd	0.0139
		Cu	19.2
		Fe	82.1
		Li	0.57
		Mn	760
		Na	7.2
		Ni	5.5
		Pb	0.094
		Rb	7.3
		Sr	9.0
		Zn	22.7

Hay powder BCR129 30g		単位の無い値はg/kg	
Ca	6.4	Mg	1.45
I	0.167mg/kg	N	37.2
K	33.8	P	2.36
		S	3.16
		Zn	0.0321
		Kjeidahl-N	34.2

参考値には次の元素記載あり：Cu, Fe, Mo, Se

Hay IAEA V-10 50g		単位はmg/kg	
Ba	6	Cu	9.4
Br	8	Fe	185
Ca	21600	Hg	0.013
Cd	0.03	Mg	1360
Co	0.13	Mo	0.9
Cr	6.5	Ni	4
		P	2300
		Pb	1.6
		Rb	7.6
		Sc	0.014
		Sr	40
		Zn	24

参考値には次の元素記載あり：Al, K, Mn, Na

Beech Leaves BCR100 30g		在庫切れです。		単位はg/kg	
Al	0.435	Cr	0.0080	N	26.29
Ca	5.30	K	9.94	P	1.55
Cl	1.49	Mg	0.878	S	2.69

参考値には次の元素記載あり：Cd, Cu, Fe, Mo, Pb, Zn

Spruce needles BCR101 30g		在庫切れです。		単位はg/kg	
Al	0.173	Mg	0.619	P	1.69
Ca	4.28	Mn	0.915	S	1.70
Cl	0.688	N	18.89	Zn	0.0353

参考値には次の元素記載あり：Cd, Cr, Cu, Fe, K, Mo, Pb.

White Clover		BCR402	25g	単位はmg/kg	
As	0.093	Mo	6.93		
Co	0.178	Se	6.70		

Lichen		BCR482	15g	単位はmg/kg	
Al	1103	Cr	4.120	Ni	2.47
As	0.85	Cu	7.03	Pb	40.90
Cd	0.56	Hg	0.48	Zn	100.6

Pine Needles		SRM1575a	50g	記載の無い単位はmg/kg	
Al	580	Cu	2.8	Se	(0.099)
As	(0.039)	Fe	46	Na	(60)
B	(9.6)	Hg	0.0399	Mg	(0.106%)
Ba	6.0	Mn	(488)	P	0.107%
Cd	0.233	Ni	(1.47)	K	0.417%
Ce	(0.283)	Pb	(0.167)	Ca	0.25%
Cl	421	Rb	16.5		
Co	(0.061)	Sc	(0.0101)		

参考値には次の元素記載あり : Ce, Cr(inhomogenous)

リョウブ		NIES CRM #1	14g	在庫切れです。	単位の無い値は $\mu\text{g/g}$
K	1.51%	Ba	165	Ni	8.7
Ca	1.38%	Na	106	Cd	6.7
Mg	0.408%	Rb	75	Pb	5.5
Mn	0.203%	Sr	36	As	2.3
Zn	340	Co	23		
Fe	205	Cu	12		

参考値には次の元素記載あり : P, Cr, Cs, Tl, Hg

IAEA-V-9 Cellulose (cotton)		(25g)	
Certified values (単位はmg/kg)			
Ba	9	Hg	0.06
Ca	240	Mg	53
Cl	600	Mn	0.15
Cr	0.11	Mo	0.034
Cu	0.59	Na	56
		Ni	0.09
		Pb	0.25
		Sr	0.65
IAEA-336 Lichen		(20g)	
Recommended values (単位はmg/kg)			
As	0.63	Fe	430
Ba	6.4	Hg	0.2
Br	12.9	K	1840
Ce	1.28	La	0.66
Co	0.29	Mn	63
Cs	0.11	Na	320
Cu	3.6	Sb	0.073
		Se	0.22
		Sm	0.106
		Sr	9.3
		Th	0.14
		Zn	30.4

Information values for Al, Cd, Cl, Cr, Eu, Lu, Nd, P, Pb, Rb, Sc, Tb, V, Yb

## 果実・野菜 関係

Apple Leaves SRM1515 在庫切れです。 50g					
保証値 単位の無い値は $\mu\text{g}/\text{kg}$					
Al	286	Fe	83	Ni	0.91
As	0.038	Hg	0.044	P	0.159%
B	27	K	1.61%	Pb	0.47
Ba	49	Mg	0.271%	Rb	10.2
Ca	1.526%	Mn	54	Se	0.050
Cd	0.013	Mo	0.094	Sr	25
Cl	579	N	2.25%	V	0.26
Cu	5.64	Na	24.4	Zn	12.5
参考値 単位の無い値は $\mu\text{g}/\text{kg}$					
N (Kjeldahl)	2.31 wt%	Eu	0.2	Sc	0.03
S	0.18 wt%	Gd	3	Tb	0.4
Sb	0.013	Au	0.001	Th	0.03
Br	1.8	I	0.3	Sn	< 0.2
Ce	3	La	20	W	0.007
Cr	0.3	Nd	17	U	0.006
Co	0.09	Sm	3	Yb	0.3

Peach Leaves SRM1547 在庫切れです。 50g					
保証値 単位の無い値は $\mu\text{g}/\text{kg}$					
Al	249	Fe	218	Ni	0.69
As	0.060	Hg	0.031	P	0.137%
B	29	K	2.43%	Pb	0.87
Ba	124	Mg	0.432%	Rb	19.7
Ca	1.56%	Mn	98	Se	0.120
Cd	0.026	Mo	0.060	Sr	53
Cl	360	N	2.94%	V	0.37
Cu	3.7	Na	24	Zn	17.9
参考値 単位の無い値は $\mu\text{g}/\text{kg}$					
N (Kjeldahl)	2.96 wt %	Eu	0.17	Tb	0.1
S	0.2 wt %	Gd	1	Th	0.05
Sb	0.02	I	0.3	Sn	< 0.2
Br	11	La	9	U	0.015
Ce	10	Nd	7	Yb	0.2
Cr	1	Sm	1		
Co	0.07	Sc	0.04		

Vegetation - Fluoride SRM2695 2x25g		
「F」 low level	64.0	
「F」 high level	277	単位は $\mu\text{g}/\text{kg}$

Spinach Leaves SRM1570a (60g)					
保証値 mg/kg(ppm) * 印は%					
Aluminium	310	Magnesium	(0.9*) Sodium	1.821*	
Arsenic	0.068	Manganese	76.0	Strontium	55.54
Boron	37.7	Mercury	0.0297	Sulfur	(0.5*)
Cadmium	2.876	Nickel	2.142	Thorium	0.0480
Calcium	1.526*	Nitrogen	6.06*	Uranium	0.155
Cobalt	0.393	Phosphorus	0.5187*	Vanadium	0.568
Copper	12.22	Rubidium	12.7	Zinc	82.3
Europium	0.0055	Scandium	0.0055	Potassium	2.900*
Lead	(0.2)	Selenium	0.1152		

Slurried Spinach SRM2385 容量:4 x 70g	
単位: (Concentrations are in mg/kg.)	
Calcium	624
Copper	0.9
Iron	17
Magnesium	368
Manganese	3.8
Phosphorus	323.7
Potassium	3650
Sodium	47
Zinc	8.4

Tomato Leaves SRM1573a 50g					
保証値 単位の無い値はmg/kg					
Al	598	Cu	4.70	P	0.216%
As	0.112	Hg	0.034	Rb	14.89
B	33.3	K	2.70%	Sb	0.063
Cd	1.52	Mn	246	Se	0.054
Ca	5.05%	N	3.03%	V	0.570
Co	0.57	Na	136	Zn	82
Cr	1.99	Ni	1.59		
参考値 単位の無い値はmg/kg					
H	5.20%	Cs	0.053	Sm	0.19
Mg	1.20%	Cl	6600	Sc	0.1
N(Kjeldahl)	2.92%	Ga	0.17	Ag	0.017
S	0.96	Hf	0.14	Sr	85
Ba	63	I	0.85	Th	0.12
Br	1300	La	2.3	U	0.035
Ce	2	Mo	0.46		
Strawberry Leaves LGC7162 20g 単位の無い値はmg/kg					
Ca	1.53g/100g	As	0.28	Pb	1.8
Mg	0.377g/100g	Ba	107	Mn	171
N	2.01g/100g	Cd	0.17	Hg	0.027
P	0.260g/100g	Co	0.47	Ni	2.6
K	1.96g/100g	Cr	2.15	Sr	64
S	0.174g/100g	Fe	818	Zn	24

LGC7111 Potato powder 110g	
Assessed value	
Total sulfur dioxide	212 ± 27 mg/kg

White cabbage BCR679 15g 単位の無い値はmg/kg					
As	7.0 μg/kg	Fe	55.0 μg/kg	Sr	11.8
B	27.7	Hg	6.3	Tl	2.98
Ba	10.3	Mo	14.8	Zn	79.7
Cd	1.66	Ni	27.0		
Cu	2.89	Sb	20.6		

Haricots Verts (beans) BCR383 100g			
Ca	2.9g/kg	N(kjeldahl)	1.1
K	7.8g/kg	DietaryFibre	11.9
Na	0.08g/kg	Ash 550°C	2.4

単位の無い値はg/100g

Indicative values : Mg, P, Glucose, Fructose, Starch&amp;Sugars, DietaryFibre(englyst)

IAEA-359 Cabbage 30g					
Certified values (単位はmg/kg)					
Al	0.1	Fe	148	Ni	1.05
Ba	11	Hg	0.013	Se	0.12
Ca	18500	K	32500	Sr	49.2
Cd	0.12	Mg	2160	Zn	38.6
Cr	1.3	Mn	31.9		
Cu	5.67	Na	580		

	3258 Bitter Orange (Fruit)	3259 Bitter Orange Extract	3260 Bitter Orange- Containing Solid Oral Dosage Form	3261 Bitter Orange Supplement Suite
	5 x 5 g	5 x 1.2 g	5 x 2.5 g	2 packets each of SRMs 3258, 3259 and 3260
Constituent (Concentrations are in mg/g)				
Caffeine			64.3	左記分析値参照
Synephrine	9.1	71.9	18.19	
N-Methyltyramine	0.178	5.23	(0.75)	
Tyramine	(0.031)	0.8	0.187	
Total Citrus Alkaloids	9.41	77.5	19.57	
Octopamine	(0.124)	(0.809)	(0.161)	
Hordeanine	(0.012)	(0.018)	(0.0049)	
Element (Concentrations are in mg/kg, unless noted by a single asterisk for mass fraction, in %) or double asterick for mass fraction in ng/g)				
Arsenic	160*	350**	140**	左記分析値参照
Cadmium	10*	14**	16**	
Calcium				
Copper				
Iron				
Lead	1500**	290**	240**	

BCR-162R SOYA-MAIZE OIL BLEND 単位:g/100g		
Analyte	Certified value	Certified uncertainty
Methyl ester of 16:0 (n-hexadecanoic acid)	10.74	±0.16
Methyl ester of 18:0 (n-octadecanoic acid)	2.82	±0.04
Methyl ester of 9c, 12c, 15c-18:3 (n-octadecat...	3.35	±0.05
Methyl ester of 9c, 12c-18:2 (n-octadecadieni...	54.13	±0.25
Methyl ester of 9c-18:1 (n-octadecenoic acid)	25.4	±0.4
...		
Analyte	Indicative value	Indicative uncertainty
Methyl ester of 18:1 (n-octadecenoic acid)	26.5	±0.4
Methyl ester of 18:2 (n-octadecadienoic acid)	54.68	±0.26
...		
Methyl ester of 18:3 (n-octadecatrienoic acid)...	3.8	±0.06

Carrot Extract Oil SRM3276 容量: 5 x 1 ml	
Carotenoids and Tocopherols (Concentrations in mass fraction in $\mu\text{g/g}$ )	
<i>trans</i> - $\beta$ -Carotene <sup>(b,c,d)</sup>	30.6
total <i>cis</i> - $\beta$ -Carotene <sup>(b,c,d)</sup>	22.1
total $\beta$ -Carotene <sup>(b,d)</sup>	50.6
$\beta$ -Tocopherol <sup>(b,e,f)</sup>	373
$\gamma$ -Tocopherol <sup>(b,e,f)</sup>	443
<i>trans</i> - $\alpha$ -Carotene <sup>(b,c)</sup>	(3.14)
$\beta$ - <i>cis</i> - $\beta$ -Carotene <sup>(c,d)</sup>	(11.4)
Selected Fatty Acids (as Triglycerides) (Concentrations expressed in mass fraction %)	
Hexadecanoic Acid (C16:0) (Palmitic Acid)	1.36
(Z)-9-Hexadecenoic Acid (C16:1 n-7) (Palmitoleic Acid)	0.0147
Heptadecanoic Acid (C17:0)	0.0213
Octadecanoic Acid (C18:0) (Stearic Acid)	1.14
(Z)-9-Octadecenoic Acid (C18:1 n-9)	3.68
(Z)-11-Octadecenoic Acid (C18:1 n-7) (Vaccenic Acid)	0.519
(Z,Z)-9,12-Octadecenoic Acid (C18:2 n-6) (Linoleic Acid)	6.64
(Z,Z,Z)-9,12,15-Octadecatrienoic Acid (C18:3 n-3) (Linolenic Acid)	0.816
Eicosanoic Acid (C20:1) (Arachidic Acid)	0.0578
(Z)-11-Eicosenoic Acid (C20:1 n-9) (Gondoic Acid)	0.353
Docosanoic Acid (C22:0) (Behenic Acid)	0.126
Tetracosanoic Acid (C24:0) (Lignoceric Acid)	0.0242

## 加工食品

Typical Diet (一般的な食事) SRM1548a Set2						
保証値 単位の無い値はmg/kg						
Al	72.4	Cu	2.32	P	3486	
As	0.20	Fe	35.3	K	6970	
B	4.16	I	0.759	Se	0.245	
Ba	0.10	Mg	580	Na	8132	
Ca	1967.00	Mn	5.75	S	1928	
Cd	0.035	Mo	0.260	Sr	2.93	
Ce	0.0098	Ni	0.369	Sn	17.2	
Cl	12078	Pb	0.044	Zn	24.6	
				Ash	4.042%	
				Carbohydrate	58.36%	
				Fat(total)	19.41%	
				Nitrogen	3.03%	
				Protein	18.08%	
				Total Dietary Fiber	4.31%	
				Calories	481.0 kcal/100g	
参考値 Mass Fraction (%)						
Ash		4.042		Protein		18.08
Carbohydrate		58.36		Total Dietary Fiber		4.31
Fat(total)		19.41		Calories		481.0
Nitrogen		3.03				
情報値 Mass Fraction (mg/kg)						
Sb	0.009	Hg	0.005	Ti	4.7	
Br	9.64	Si	78.7			
Co	0.028	Sc	0.0008			

日本の食事	NIES	CRM#27	18g	単位の無い値はmg/kg	
As	0.60	Se	0.25	Ca	0.125%
Ba	1.1	Sn	1.6	K	0.550%
Cd	0.069	Sr	4.9	Na	1.00%
Cu	2.8	Zn	20.9		
Mg	576	U	0.0029		
Mn	8.9				

参考値: Br, Cl, Co, Cs, Fe, I, Mo, Ni, P, Pb, Rb, Th

Cholesterol in Whole Egg Powder SRM1845 在庫切れ
Cholesterol

Slurried Spinach SRM2385 (70g) 単位はmg/kg	
Ca 624	total Lutein 32.9
Fe 17.1	total $\beta$ -Caroten 19.2
Mg 368	Vitamin B <sub>2</sub> (0.73)
Mn 3.81	Niacin (2.99)
P 323.7	trans- $\beta$ -Carotene (15.1)
K 3650	Solids %mass fraction (5.28)
Zn 8.37	Ash %mass fraction (0.97)
Cu (0.9)	Fat (0.20)
Na (47)	Protein %mass fraction (1.42)
	Carbohydrate %mass fraction (2.73)
	Total Dietary Fiber %mass fraction (1.55)
	Enrgy %mass fraction (18.16 kcal/100g)

NIST-2387 Peanut butter (3 x 170 g)			
Certified concentrations for fat and selected fatty acids			
Mass fraction (%)			
Fat (extractable)	51.6 ± 1.4		
Fat (sum of fatty acids)	49.8 ± 1.9		
Saturated fat	10.4 ± 0.2		
Monounsaturated fat	24.4 ± 0.9		
Polyunsaturated fat	13.2 ± 0.4		
	Mass fraction (%) (as the triglyceride)	Mass fraction (%) (as the fatty acid)	
Tetradecanoic acid (C14:0) (Myristic acid)	0.025 ± 0.002	0.024 ± 0.002	
Hexadecanoic acid (C16:0) (Palmitic acid)	5.18 ± 0.15	4.94 ± 0.15	
(Z)-9-Hexadecenoic acid (C16:1 n-7) (Palmitoleic acid)	0.046 ± 0.011	0.044 ± 0.010	
Octadecanoic acid (C18:0) (Stearic acid)	2.23 ± 0.08	2.13 ± 0.08	
(Z)-9-Octadecenoic acid (C18:1 n-9) (Oleic acid)	24.43 ± 0.94	23.38 ± 0.90	
(Z)-11-Octadecenoic acid (C18:1 n-7) (Vaccenic acid)	0.266 ± 0.017	0.255 ± 0.016	
(Z,Z)-9,12-Octadecadienoic acid (C18:2 n-6) (Linoleic acid)	13.75 ± 0.43	13.15 ± 0.41	
(Z,Z,Z)-9,12,15-Octadecatrienoic acid (C18:3 n-3) (Linolenic acid)	0.031 ± 0.001	0.030 ± 0.001	
Eicosanoic acid (C20:0) (Arachidic acid)	0.739 ± 0.030	0.710 ± 0.029	
(Z)-11-Eicosenoic acid (C20:1 n-9) (Gondoic acid)	0.669 ± 0.032	0.643 ± 0.031	
Docosanoic acid (C22:0) (Behenic acid)	1.88 ± 0.08	1.81 ± 0.08	
Tetracosanoic acid (C24:0)	0.808 ± 0.045	0.781 ± 0.044	
Certified concentration values for elements and tocopherol			
	Mass fraction (mg/kg)	Mass fraction (mg/kg)	
Ca	411 ± 18	K	6070 ± 200
Cu	4.93 ± 0.15	Na	4890 ± 140
Fe	16.4 ± 0.8	Zn	26.3 ± 1.1
Mg	1680 ± 70	δ -Tocopherol	10 ± 3
Mn	16.0 ± 0.6	γ - + β -Tocopherol	100 ± 19
P	3378 ± 92	α -Tocopherol	108 ± 11
Reference values for proximates, caloric content, fatty acids, amino acids, water-soluble vitamins, aflatoxins and acrylamide			

Brown bread BCR191 (40g)			
Cd	28.4 μg/kg	Mn	20.3mg/kg
Cu	2.6mg/kg	Pb	187 μg/kg
Fe	40.7mg/kg	Zn	19.5mg/kg

参考値には次の元素記載あり：As, Ca, Cl, Cr, Hg, K, Mg, Na, Ni, P, Se.

LGC7103 Sweet digestive biscuit (50g)					
Assessed values					
Nitrogen	1.06 g/100 g	sucrose	16.6 g/100 g	Na	6300 mg/kg
Total fat	20.9 g/100 g	Chloride	0.55 g/100 g	P	870 mg/kg
Ash.	2.08 g/100 g	K	1530 mg/kg	Zn	5.8 mg/kg
Fructose	0.24 g/100 g	Mn	5.9 mg/kg		

Indicative values for Moisture, Glucose, Starch, Ca and Mg

LGC7107 Madeira cake (160g)					
Assessed values					
Moisture	25.9 g/100 g	Total fat	13.4 g/100 g	Sucrose	28.1 g/100 g
Nitrogen	0.66 g/100 g	Ash	1.76 g/100 g	Lactose	0.9 g/100 g

Indicative value for starch content

LGC7105 Rice pudding (5 x 200 g)					
This reference material is a rice pudding dessert, sealed in retort pouches in 200g portions.					
Assessed values					
Moisture	71.3 g/100 g	Sucrose	7.2 g/100 g	Mn	0.7 mg/kg
N	0.17 g/100 g	Ca	78 mg/kg	Na	344 mg/kg
Total fat	8.4 g/100 g	K	558 mg/kg	P	346 mg/kg
Ash	0.22 g/100 g	Mg	30 mg/kg	Zn	1.5 mg/kg

LGC7017 Sugar confectionery (15 g)			
A commercial supply of sugar confectionery, ground and supplied as 15g units contained in 30ml amber glass			
Assessed values			
Glucose	9.7 g/100 g	Sucrose	52.6 g/100 g
Fructose	2.3 g/100 g	Maltose	4.2 g/100 g

ERM-BD518 Bran breakfast cereal (25g)			
Certified using five different methods of dietary fibre analysis			
Certified values			
AOAC 1990	30.2 g/100 g	AOAC 1992 MES-TRIS	30.5 g/100 g
Englyst (GC)	24.1 g/100 g	Englyst (colorimetry)	25.0 g/100 g
Uppsala	27.6 g/100 g		

ERM-BD273 Toasted bread (vial)	
The matrix material ERM-BD273, consists of 30 g of toasted bread powder of particle size smaller than 500 $\mu$ m, stored in amber glass bottles under inert atmosphere and stored at a temperature of -20 °C.	
Certified value	
Acrylamide	425 ng/g

Food supplements Selenium enriched yeast NRCSELM-1 8g	
Total selenium	2059 mg/kg
Selenomethionine	3431 mg/kg
Methionine	5758 mg/kg

Baking Chocolate SRM2384 (5 x 91g)			
保証値 Fat and Selected Fatty Acids (%)			
Fat(Extractable)	51.4	Fat(Sum of Fatty Acids)	50.3
		As the Triglyceride	As the Fatty acid
Tetradecanoic Acid(C14:0) (Myristic Acid)		0.080	0.076
Hexadecanoic Acid(C16:0) (Palmitic Acid)		13.06	12.44
(Z)-9-Hexadecanoic Acid(C16:1) (Palmitoleic Acid)		0.133	0.127
Octadecanoic Acid(C18:0) (Stearic Acid)		18.01	17.24
(Z)-9-Octadecanoic Acid(C18:1) (Oleic Acid)		16.44	15.73
(Z)-11-Octadecanoic Acid(C18:1) (Vaccenic Acid)		0.180	0.172
(Z,Z)-9,12-Octadecadienoic Acid(C18:2) (Linoleic Acid)		1.524	1.458
(Z,Z,Z)-9,12,15-Octadecatrienoic Acid(C18:3) (Linolenic Acid)		0.097	0.093
Eicosanoic Acid(C20:0) (Arachidic Acid)		0.521	0.0501
Docosanoic Acid(C22:0) (Behenic Acid)		0.091	0.088
Tetracosanoic Acid(C24:0) (Lignoceric Acid)		0.050	0.050
保証値 Selected Additional (mg/kg)			
caffeine	1060	Calcium	840
Theobromine	11600	Iron	132
		(+)-Catechin	245
		(-)-Epicatechin	1220
		Catechin monomers	1490
参考値 Proximate and Caloric Content (mg/kg)			
Solid	98.37	Protein	13.18
Ash	2.78	Carbohydrate <small>(by difference)</small>	32.4
		Total Dietary Fiber	14.5
		Calories	631.0kcal/100g
参考値 Selected Fatty Acids (mg/kg)			
		as the Triglyceride (%)	as the Fatty Acid (%)
Docosanoic Acid(C12:0) (Lauric acid)		0.022	0.021
Pentadecanoic Acid(C15:0)		0.018	0.017
Heptadecanoic Acid(C17:0) (Margaric acid)		0.115	0.110
9-Eicosenoic Acid(C20:1) (Gadoleic acid)		0.023	0.022
参考値 微量元素 (mg/kg)			
Cu	23.2	P	20.3
Mg	2570	K	3330
		Na	40
		Zn	36.6
参考値 Vitamins and Other Analytes (mg/kg)			
$\delta$ -Tocopherol	3.42	Vitamin B2	1.21
$\gamma$ -Tocopherol	108.2	Niacin	12.1
$\alpha$ -Tocopherol	7.2	Theophylline	151
		Total Procyanidins	10300
		Acrylamide	138ng/g

Single cell Protein BCR273 (10g)			
As	11.97g/kg	K	2.22g/kg
Ca	11.97g/kg	N	121.6g/kg
Fe	156mg/kg	P	26.8g/kg

参考値には次の元素記載あり : Mg, N(kjeldahl), Na, S

Single cell Protein BCR274 (10g)					
As	132 $\mu$ g/kg	Cu	13.1mg/kg	P	26.8g/kg
Ca	11.97g/kg	K	2.22g/kg	Pb	44 $\mu$ g/kg
Cd	30 $\mu$ g/kg	Mn	51.9mg/kg	Se	1.03mg/kg
Co	39 $\mu$ g/kg	N	121.6g/kg	Zn	42.7 $\mu$ g/kg

参考値には次の元素記載あり : F, I, Ni.

SRM 2383a – Baby Food Composite (4 X 70 g) 単位:mg/kg			
Free Thiamine HCl	0.976	Pantothenic Acid	1.64
Riboflavin	0.56	Pyridoxine HCl	0.063
Niacin	1.79	Pydoxamine Dihydrochloride	0.228
Niacinamide	3.59	Free Vitamin B6	0.330
Free Vitamin B3	5.36		
Barium	0.278	Manganese	0.963
Calcium	342.6	Phosphorus	453
Cobalt	0.048	Potassium	2910
Copper	0.758	Sodium	195
Iron	4.42	Strontium	4.445
Magnesium	212.2	Zinc	2.22

## 飼料

Dairy feed BCR708 (40g)			
Crude Protein	240g/kg	Ca	4.8g/kg
Crude oil & fats	65g/kg	Cu	37mg/kg
Crude fibre	93g/kg	Mg	1.47g/kg
Crude ash	50g/kg	P	4.7g/kg

Pig feed BCR709 (40g)			
Crude Protein	199g/kg	Ca	1.05g/kg
Crude oil & fats	51g/kg	Cu	173mg/kg
Crude fibre	56g/kg	Mg	1.89g/kg
Crude ash	42g/kg	P	5.4g/kg

## 食物繊維

単位はg/100g	ERM-BC514 Haricot beans	ERM-BC515 Carot	ERM-BC516 Apple	ERM-BC517 Full fat soya flour	ERM-BC518 Bran breakfast cereal
AOAC 1990	25.6	31.1	16.4	12.6	30.2
Englyst(GC)	19.8	27.1	13.7	11.9	24.1
Uppsala	23.7	29.8	16.2	12.8	27.6
AOAC 1992MES-TRIS	25.9	29.5	14.9	12.4	30.5
Englyst(colorimetry)	20.1	25.2	13.4	12.3	25.0

容量:各25g

**畜産・乳製品関係**

Bovine Liver SRM1577c (20g)			
保証値 単位の無い値は $\mu\text{g}/\text{kg}$			
Ag	5.9	Fe	197.94mg/kg
As	19.6	K	1.023%
Ca	131mg/kg	Mg	620mg/kg
Cd	97.0	Mn	10.46mg/kg
Co	0.300mg/kg	Mo	3.30mg/kg
Cr	53	Na	0.2033%
Cu	275.2mg/kg	Ni	44.5
参考値 単位の無い値は $\mu\text{g}/\text{kg}$			
Cl	0.287%	Hg	5.36
Cs	21.7	N	10.30%
H	7.35%	P	1.175%

Bovine Liver BCR185R (15g) 単位の無い値は $\mu\text{g}/\text{kg}$			
As	33.0	Mn	11.07mg/kg
Cd	544	Pb	172
Cu	277mg/kg	Se	1680

Bovine Muscle ERM-BB184 (7 g lyophilised powder) 単位の無い値はmg/kg			
As	0.0234	Hg	0.0018
Cd	0.0022		
Cu	2.31	Mn	0.276
Fe	75		

参考値には次の元素記載あり : Ca, Cl, K Mg, Na

Pork Muscle ERM-BB384 (9g) 単位 : g/100g			
K	14.2 (g/100g)	Ca	0.164 (g/kg)
Fat	8.99 (g/100g)	Mg	1.03 (g/kg)
Ash at 550°C	4.51 (g/100g)	Na	1.866 (g/kg)
		P	8.7 (g/kg)

Pig kidney ERM-BB186 (10g) 単位の無い値はmg/kg			
As	(0.008)	Fe	255
Cd	1.09	Hg	(0.023)
Cu	36.5	Mn	7.26
		Zn	134

参考値には次の元素記載あり : Ca, Cl, Cr, I, K Mg, Na, Ni, P

Spiked skim milk powder BCR150 (23g) 単位の無い値はmg/kg			
Cd	21.8 $\mu\text{g}/\text{kg}$	Hg	9.4 $\mu\text{g}/\text{kg}$
Cu	2.23	I	1.29
Fe	11.8	Pb	1000

milk spiked with Cd, Cu, Fe, Hg

参考値には次の元素記載あり : Co, Mn, Ni, Se, Tl, Zn

ミルク粉末 NMIJ CRM7512-a (40g) 単位の無い値はmg/g					
Ca	8.65g/kg	Mg	0.819g/kg	Ba	0.449
Fe	0.104g/kg	Na	1.87g/kg	Mo	0.223
K	8.41g/kg	P	5.62g/kg	Rb	8.93
		Mn	0.931	Sr	5.88
				Zn	41.3

iked skim milk powder ERM- BD151 (20g) 単位の無い値はmg			
Ca	13.9 g/kg	Mg	1.26 g/kg
Cd	0.106 mg/kg	Mn	0.29 mg/kg
Cl	9.8 g/kg	Na	4.19 g/kg
Cu	5 mg/kg	P	11 g/kg
Fe	53 mg/kg	Pb	0.207 mg/kg
Hg	0.52 mg/kg	Se	0.19mg/kg
I	1.78 mg/kg	Zn	44.9mg/kg
K	17 g/kg		

Skim milk powder(natural) BCR063R (23g)			
Ca	13.49g/kg	I	0.81mg/kg
Cl	9.94 $\mu$ g/kg	K	17.68g/kg
Cu	0.602mg/kg	Mg	1.263g/kg
Fe	2.32mg/kg	N(T)	62.3g/kg
		Na	4.37g/kg
		P	11.10g/kg
		Pb	9.94 $\mu$ g/kg
		Zn	49.0mg/kg

参考値には次の元素記載あり：Mo, N(Kjeldahl)

Whole Milk Powder SRM1549a (5 pouches x 10 g each)					
Thiamine	Ion	265	Pantothenic Acid	Ion	220
Niacinamide	Ion	123	Pyridoxamine	Ion	169
13C-Thiamine	Ion	268	13C3,15N-Pantothenic Acid	Ion	224
2H4-Niacinamide	Ion	127	2H3-Pyridoxamine	Ion	172
Barium		0.566mg/kg	Phosphorus		7600mg/kg
Calcium		8810mg/kg	Potassium		11920mg/kg
Magnesium		892mg/kg	Selenium		0.242mg/kg
Magnesium		0.184mg/kg	Sodium		3176mg/kg
			Strontium		2.14mg/kg
			Zinc		33.8mg/kg

CRM-380R WHOLE MILK POWDER			
Analyte	Certified value	Certified uncertainty	Unit
Ash	6	$\pm 0.13$	g/100g
Crude protein (Kjeldahl x 6.38)	28.66	$\pm 0.28$	g/100g
Fat	26.95	$\pm 0.16$	g/100g
Lactose (anhydrous)	37.1	$\pm 1.0$	g/100g

CRM-685 SKIM MILK POWDER			
Analyte	Certified value	Certified uncertainty	Unit
Crude protein (Kjeldahl x 6.38)	38.2	$\pm 0.4$	g/100g
Fat	0.96	$\pm 0.12$	g/100g

LGC 7104 Sterilised cream – Proximates and nutrient elements (5 x 170 g)					
LGC7104 is a cream product, sealed in cans in 170g portions.					
Assessed values (単位の無いのはmg/kg)					
Moisture	70.2 g/100 g	Ca	845	P	823
Nitrogen	0.40 g/100 g	K	1160	Zn	3.1
Total fat	22.7 g/100 g	Mg	84		
Ash	0.58 g/100 g	Na	505		

Indicative values for Cl, Lactose

IAEA-153 Milk powder (50g)					
Certified values (単位 mg/kg)					
Br	12.3	K	17620	P	101000
Ca	12870	Mg	1060	Rb	14
Fe	2.53	Na	4180	Zn	39.6

Indicative values for Cu, Mn, Mo, Sr

Bone Ash SRM1400 (50g)					
保証値 単位の無い値は $\mu\text{g}/\text{kg}$					
Ca	38.18%	Fe	660 $\mu\text{g}/\text{g}$	St	249 $\mu\text{g}/\text{g}$
Mg	0.684%	Pb	9.07 $\mu\text{g}/\text{g}$	Zn	181 $\mu\text{g}/\text{g}$
P	17.91%	K	186 $\mu\text{g}/\text{g}$		
参考値 単位はwt.%			参考値 単位は $\mu\text{g}/\text{g}$		
Si	0.13	Al	530		
Na	0.6	As	0.4		
		Cd	0.03		
Moisture <sub>2h@105°C</sub>	0.2	Cu	2.3		
Loss in Ignition@1000°C	0.87	F	1250		
		Mn	17		
		Se	0.08		

Bone Meal SRM1486 (50g)					
保証値 単位の無い値は $\mu\text{g}/\text{kg}$					
Ca	26.58%	Fe	99 $\mu\text{g}/\text{g}$	St	264 $\mu\text{g}/\text{g}$
Mg	0.466%	Pb	1.335 $\mu\text{g}/\text{g}$	Zn	147 $\mu\text{g}/\text{g}$
P	12.30%	K	412 $\mu\text{g}/\text{g}$		
参考値 単位はwt.%			参考値 単位は $\mu\text{g}/\text{g}$		
Si	< 0.02	Al	< 1		
Na	0.5	As	0.006		
Ca	18.6	Cd	0.003		
Moisture <sub>2h@105°C</sub>	2.4	Cu	0.8		
Loss in Ignition@1000°C	31.5	F	800		
		Mn	1		
		Se	0.13		

IRMM-801 Cocoa butter – Triglyceride (TG) ampoule		
Certified values		
Triglyceride Relative mass fraction Uncertainty		
	g TG/100 g total TG	g TG/100 g total TG
1,3-Dipalmitoyl-2-oleyl-glycero	18.14	0.26
1-Palmitoyl-2-oleoyl-3-stearoyl-glycerol	44.68	0.30
1,2-Dioleoyl-3-palmitoyl-glycerol	2.26	0.16
1,3-Distearoyl-2-oleoyl-glycerol	31.63	0.29
1,2-Dioleoyl-3-stearoyl-glycerol	3.29	0.17

Lyophilised pork muscle		ERM-BB384	9g
Ca	0.164g/kg	N(kjeldahl)	14.2
P	8.7g/kg	Fat	8.99
Mg	1.03g/kg		
Na	1.86g/kg	Ash 550°C	4.51

## PCB 分析

PCB (IUPAC No.)	Natural milk powder BCR450 20g	Natural pork fat ERM-BB444 5g	Spiked pork fat ERM-BB445 5g	Spiked pork fat ERM-BB446 5g
28	1.16	(<2)	14.8	29.5
52		(<2)	12.9	25.5
101		(<2)	12.5	30
118	3.3	(<2)	12.7	30.2
138		(<2)	14.6	32
153	19.0	(<2)	13.1	30.8
156	1.62			
170	4.8			
180	11.0	(<2)	12.6	29.8
sum(28,52,101,118,138, 153,180)		(<14)	93	207
*PDBE 47		(3,7)	(3,9)	(6,1)
γ-HCH (lindene)		(5,7)	(5,6)	(4,6)

\* 2,2',4,4'-tetrabromo-diphenylether

単位は μg/kg

\* 本製品は化審法による第1種特定化学物質に該当します。詳しくはお尋ね下さい。

PCB (IUPAC No.)	Cod liver oil BCR349 2g	Mackerel oil BCR350 2g
28	68	22.5
52	149	62
101	370	165
118	454	143
138+163	(756)	(274)
153	938	317
180	280	73
44	(75)	(44)
128	(104)	(41)
194	(38)	

単位は μg/kg

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**ダイオキシン 分析**

ダイオキシン	Natural spray dried milk powder BCR607 100g
2,3,7,8-T <sub>4</sub> CDD (D48)	0.25
1,2,3,7,8-P <sub>5</sub> CDD (D54)	0.79
1,2,3,4,7,8-H <sub>6</sub> CDD (D66)	0.42
1,2,3,6,7,8-H <sub>6</sub> CDD (D67)	0.98
1,2,3,7,8,9-H <sub>6</sub> CDD (D70)	0.34
2,3,7,8-T <sub>4</sub> CF (F83)	0.05
1,2,3,8,9-P <sub>5</sub> CDF (F94)	0.054
2,3,4,7,8-P <sub>5</sub> CDF (F114)	1.81
1,2,3,4,7,8-H <sub>6</sub> CDF (F118)	0.94
1,2,3,6,7,8-H <sub>6</sub> CDF (F121)	1.01
2,3,4,6,7,8-H <sub>6</sub> CDF (F130)	1.07

単位はng/kg

**残留農薬 分析**

玄米粉末 CRM7504-a 25g	単位mg/kg
フェニトロチオン	0.109
エトフェンプロップ	0.19
	参考値として フラサイド イソプロチオラン カドミウム

ネギ粉末 CRM7507-a(02) 3g	単位mg/kg
ダイアジノン	0.96
フェニトロチオン	4.41
ペルメトリン	7.14
シベルメトリン	3.98
	エトフェンプロップ 13.9

キャベツ粉末 CRM7508-a(02) 3g	単位mg/kg
フェニトロチオン	2.41
クロルピリフォス	6.9
ペルメトリン	5.75

りんご粉末 CRM7510-a 3g	単位mg/kg
ダイアジノン	2.28
フェニトロチオン	3.14
ペルメトリン	2.81
シベルメトリン	1.55

大豆粉末 CRM759-a 10g	単位μg/kg
ダイアジノン	21.7
フェニトロチオン	88
クロルピリフォス	11.1
ペルメトリン	20.1

塩素系有機農薬	Cod liver oil BCR598 5g	単位は $\mu\text{g}/\text{kg}$
HCB	55.7	
$\alpha$ -HCH	42	
$\beta$ -HCH	16	
$\gamma$ -HCH	23	
$\gamma$ -Chlordane	6.9	
$\alpha$ -Chlordane	24.4	
Oxychlordane	11.0	
Transnonachlor	39	
Dieldrin	59	
p,p'-DDE	0.61x10(3)	
o,p'-DDD	30	
p,p'-DDD	0.40x10(3)	
p,p'-DDT	0.179x10(3)	

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塩素系有機農薬	Animal feed BCR115 30g	単位はmg/kg
HCB	0.0194	
$\beta$ -HCH	0.023	
$\gamma$ -HCH	0.0218	
Heptachlor	0.0190	
$\gamma$ -Chlordane	0.048	
$\alpha$ -Endosulfan	0.046	
Dieldrin	0.018	
Endrin	0.046	
o,p'-DDT	0.046	
p,p'-DDE	0.047	

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塩素系有機農薬	Milk Powder BCR187 20g	Milk Powder BCR188 20g(spiked)
HCB	1.5	37.4
$\alpha$ -HCH	1.80	(20.0)
$\beta$ -HCH		12.0
$\gamma$ -HCH	5.7	45.4
$\beta$ -HEPO	(1.4)	32.0
p,p'-DDE	6.6	51.3
Dieldrin	(2.3)	36.1
Endrin		6.2
p,p'-DDT		69.0

単位は  $\mu\text{g}/\text{kg}$

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塩素系有機農薬	Pork fat BCR430 3g	単位は $\mu\text{g}/\text{kg}$
HCB	392	
$\alpha$ -HCH	140	
$\beta$ -HCH	259	
$\gamma$ -HCH	500	
$\beta$ -HEPO	109	
p,p'-DDT	820	
Dieldrin	124	
Endrin	20	
o,p'-DDT	3400	
p,p'-DDE	(766)	

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**多環芳香族(PAH) 分析**

多環芳香	Coconut oil BCR459 45g
Pyrene	(<0.9)
Chrysene	(<0.6)
Benzo[k]fluoranthene	(<0.2)
Benzo[a]perylene	(<0.3)
Benzo[ghi]perylene	(<0.2)
Indeno[1,2,3-cd]pyrene	(<0.2)

単位は  $\mu\text{g}/\text{kg}$ 

多環芳香	Beech wood BCR683 60g	単位はmg/kg
Benz[a]anthracene	6.5	
Benzo[a]pyrene	3.4	
Benzo[e]pyrene	9.3	
Benzo[b]fluoranthene	5.8	
Benzo[k]fluoranthene	2.58	
Pentachlorophenol	3.6	

油・油脂 分析

	Rapeseed(colza) ERM-BC190 20g	Rapeseed(colza) ERM-BC366 20g	Rapeseed(colza) ERM-BC367 20g
Total glucosinolate content	23 mmol/kg	11.9 mmol/kg	99 mmol/kg
Sulphur content	4.72 g/kg	3.31 g/kg	10.3 g/kg

牛-ブタ 混合脂肪油	Beef-pork fat oil blend 2x5mL BCR163
Methyl ester of	Mass fraction fatty acid methyl ester/ total fatty acid ester (g/100g)
14:0 n-tetradecanoic acid	2.29
14:1 ω5	(0.3)
15:0	(0.3)
16:0 n-hexadecanoic acid	25.96
16:1 n-hexadecanoic acid	2.58
16:1 ω9 <sup>(2)</sup>	(0.3)
17:0	(1)
17:1	(0.4)
18:0 n-octadecanoic acid	18.29
18:1 n-octadecanoic acid	38.34
18:1 ω7 <sup>(2)</sup>	(1-3)
18:1 trans <sup>2)</sup>	(0.5)
18:2 n-octadecatrienoic acid	7.05
18:2 trans <sup>2)</sup>	(0.5)
18:2 .conj <sup>2)</sup>	(0.4)
18:3 n-octadecatrienoic acid	0.86
18:3 trans <sup>2)</sup>	(0.5)
20:0	(0.3)
20:1	(0.8)
20:2	(0.3)
20:3	(0.3)
22:0	(0.5)
sterols	<u>Mass fraction (mg/100g) in fat</u>
cholesterol	133.6

1) includes any geometric(i.e. cis/trans) and positional isomers, expressed as mass fraction of total fatty acid (methyl esters) derived from triglycerides.

2) these components are included in the Certified Value for this group of fatty acid. The report gives additional indicative value: Fatty Acids and "total" sterol mass fraction.

バター脂肪分の加水物	Tracers in anhydrous butter fat mg/kg BCR633 5g
β-A-8'-carotenic acid ethyl ester	26.5
β-Sitosterol	530
Stigmeasterol	147
n-Heptanoic acid triglyceride	1.06 x 10 <sup>3</sup>

Quantity	Low oil cont. rapeseed BCR446 150g	Medium oil cont. rapeseed BCR447 150g	High oil cont. rapeseed BCR448 150g
	Mass fraction(g/100g)	Mass fraction(g/100g)	Mass fraction(g/100g)
As' is Oil	39.49	41.99	45.43
Moisture and volatiles	7.01	7.42	7.68
Dry basis' Oil	42.48	45.36	49.21

LGC7120 Corn oil (5 x 25mL)	
Commercial corn oil with added BHA and BHT	
Assesed values (単位はmg/kg)	
BHA	49.4
BHT	49.7

## コレステロール 分析

コレステロール	Anhydrous butter fat %	BCR519 set 2
Cholesterol	0.30	
C24	0.05	
C26	0.25	
C28	0.59	
C30	1.15	
C32	2.43	
C34	5.64	
C36	10.47	
C38	12.53	
C40	10.03	
C42	6.69	
C44	6.11	
C46	6.86	
C48	8.69	
C50	11.40	
C52	10.96	
C54	5.89	

## コレステロール / 脂溶性ビタミン 分析

SRM1546 Meat Homogenate	在庫切れ
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SRM 1849a – Infant/Adult Nutritional Formula (set 10 x 10g)			
無機元素 : (mg/kg)			
Calcium	5253	Molybdenum	1.707
Copper	19.78	Phosphorus	3990
Chromium	1.072	Potassium	9220
Iodine	1.29	Selenium	0.812
Iron	175.6	Sodium	4265
Magnesium	1648	Zinc	151.0
Manganese	49.59		

その他、脂肪酸、コレステロール、ビタミン等の分析値がございます。

**ビタミン 分析**

	Wholemeal flour BCR121 50g	Margarine BCR122 200g	Whole milk poeder ERM- BD600 50g	Brussels sprouts BCR431 20g	Mixed vegetables BCR485 25g	Pig's liver BCR487 15g
B1(thiamin)	4.63		4.5		3.07	8.6
B2(riboflavin)			16.7			106.8
B6(total pyridoxine)	4.10				4.8	19.3
B12			0.32			1.12
C(total ascorbate)			74	4830		
D3(cholecalciferol)		0.125				
E(tocopherol)		241				
Folate(total)	0.50		86		3.15	13.3
Niacin				43		
Trans- $\alpha$ -caroene					10.5	
Trans- $\beta$ -caroene					23.7	
Total- $\alpha$ -caroene					9.8	
Total- $\beta$ -caroene					25.6	
Lutein			A (all-trans-retinol) 3.8		12.5	
Lutein+zeaxanthin			A (all-trans-retinol) and 13-cis-retinol) 4.1		22.3	

単位はmg/kg

**糖類 分析**

	Rice flour (low level) BCR465 10g	Rice flour (medium level) BCR466 10g	Rice flour (high level) BCR467 10g
Amylose mass fraction	15.4	23.1	27.7

単位はg/100g

	Artificial foodstuff BCR644 50g	Artificial foodstuff BCR645 50g
Mass fraction on dry mass basis (g/100g)		
Fructose	16.2	
Sucrose	10.81	26.2
Lactose	15.85	27.8
Starch / glucose	35.1	25.2

単位は $\mu$ g/kg

BCR-657 Sugar (glucose) (1g)		
Certified value		
Parameter	Value	Uncertainty
$\delta$ 13 CVPDB by IRMS	1.076 ‰	0.004‰

**アルコール 分析**

	Beer BCR651 10mL	Beer BCR652 10mL	Beer BCR653 10mL
Ethanol	0.505	0.051	0.539

単位は% ethanol v/v

## 小麦粉の栄養分析

Parameters (determined according to ISO and ICC standard)	Common wheat flour BCR563 360g
Protein content % (Nx5.7) dry matter basis	11.71
Ash content % dry matter basis	0.562
Failling number / s	319
Zeleny sedimentation volume / mL	44
<b>CHOPIN ALVEOGRAPH</b>	
P/mmH <sub>2</sub> O*	81
L/mm**	109
P/L	0.75
W/(10-4Joules)***	290
<b>BRABENDER FARINOGRAPH</b>	
Maximum consistency / BU(Brabender Units)	499
Development time / min	1.7
Stability / min	2.5
Degree of softening / BU (Brabender Units)	87
<b>BRABENDER EXTENSOGRAPH</b>	
Maximum resistance / EU(Brabender Extensograph Units)	466
Resistance at 50mm / EU(Brabender Extensograph Units)	261
Energy / (cm <sup>2</sup> )	119
Extensibility / mm	202

BCR563 is provided in vacuum sealed laminated foil envelopes  
\* P : Mean curve height of Alveograph.

\*\* L : Mean curve length  
\*\*\* W : Area under Alveograph curve

## カビ毒 分析

アフラトキシン B1	Defatted peanut meal (blank) BCR262 100g	Defatted peanut meal (high level) BCR264 150g	Compound feed (very low level) BCR375 50g	Compound feed (low level) BCR376 50g
	Mass fraction	Mass fraction	Mass fraction	Mass fraction
Aflatoxine B1	< 3	206	< 1	9.3

単位は μg/kg

アフラトキシン M1	Whole milk powder (very low level) ERM-BD282 25g	Whole milk powder (medium level) ERM-BD283 25g	Whole milk powder (high level) ERM-BD284 25g
Aflatoxine M1	< 0.02	0.111	0.44

単位は μg/kg

probable content is in the range 0.01 to 0.02 μg/kg

	BCR-401 Peanut butter (very low level) (50g)	BCR-385R Peanut butter (low level) (50g)
Aflatoxine B1	<0.2	1.77
Aflatoxine B2	<0.1	0.48
Aflatoxine G1	<0.1	0.9
Aflatoxine G2	<0.1	0.30
Total Aflatoxins	<0.5	0.5

デオキシニバレノール	Maize Flour BCR377 (very low level blank) 150g	Wheat Flour BCR396 (very low level blank) 150g
DON	Mass fraction <0.05	Mass fraction <0.05

単位はmg/kg

オクラトキシン A	Wheat (blank) BCR471 55g
Ochratoxine A	Mass fraction <0.05

単位は  $\mu$ g/kg

	Maize ERM-BC716 60g	Maize ERM-BC717 60g
ZON	Mass fraction <5	Mass fraction 83

単位は  $\mu$ g/kg

## 貝 毒 分 析

	Mussel BCR543 15g
	Mass fraction
Saxitoxin・2HCl	<0.07
Saxitoxin・2HCl ( if enriched with BCR663)	0.48
dc-saxitoxin	<0.04

単位はmg/kg

Domoic Acid  
Okadaic Acid  
Dinophysistoxin  
その他の貝毒分析に使用する標準試料を取り揃えております。  
詳しくはお問合せ下さい。

**Trenbolone 分析**

	BCR 474 Bovine liver – Trenbolone	BCR475 Bovine liver – Trenbolone
17-alpha-Trenbolone	set 2 x 2.8g lyophilised liver powder	
	<0.5 $\mu$ g/kg	7.6 $\mu$ g/kg

**Chlortetracycline 分析**

	Chlortetracycline
BCR-695 Pig Liver	< 0.004 mg/kg
BCR-696 Pig Liver	0.58 mg/kg
BCR-697 Pig muscle	< 0.006 mg/kg
BCR-706 Pig kidney	< 0.005 mg/kg

**Diethylstilbestrol 分析**

BCR-411 Bovine muscle– Diethylstilbestrol (5g)	
Diethylstilbestrol	Certified value
	>0.5 $\mu$ g/L

BCR-412 Bovine muscle– Diethylstilbestrol (5g)	
Diethylstilbestrol	Certified value
	>0.1 $\mu$ g/L

**Clenbuterol 分析**

	BCR-673 Bovine eye	BCR-674 Bovine eye
Clenbuterol	<0.5 $\mu$ g/kg	9.4 $\mu$ g/kg