

Sylab SYstèmes de LABoratoires Mai2009

Matériaux

Certifiés

Pour Laboratoires  
Agro-alimentaires

Farines-Poudres de Lait-Préparations- Viandes-  
Mollusques - Légumes-Végétaux pour **ANALYSES,**  
**CHNSO et IRMS**

SYLAB BP15109 F-57070 Metz France- [www.sylab.fr](http://www.sylab.fr)

[sylab@sylab.fr](mailto:sylab@sylab.fr) T:+33 387761348 fax:+33 387740854



# Acides gras et cholestérol dans les aliments diététiques

SRM 1544 : 4 Flacons de 15 grammes de mélange alimentaire.

Analyte	Common Name	w <sub>B</sub> (in g/kg)
Cholesterol		0.1483 ± 0.0094
Dodecanoic Acid (C12:0)	Lauric Acid	1.31 ± 0.12
Tetradecanoic Acid (C14:0)	Myristic Acid	1.01 ± 0.10
Hexadecanoic Acid (C16:0)	Palmitic Acid	5.77 ± 0.52
Octadecanoic Acid (C18:0)	Stearic Acid	2.00 ± 0.22
Z-9-Octadecenoic Acid (C18:1)	Oleic Acid	11.6 ± 0.94
Z,Z-9-12-Octadecadienoic Acid (C18:2)	Linoleic Acid	6.56 ± 0.62

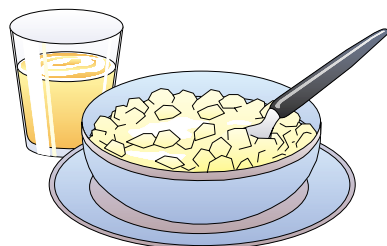


Table 2. Noncertified Mass Fractions (w<sub>B</sub>) for Proximates and Nutrients

Proximate	w <sub>B</sub> (in%)	Nutrient	w <sub>B</sub> (mg/kg)
Protein	5.3 ± 0.3	Calcium	523 ± 66
Moisture	73.1 ± 0.8	Potassium	1535 ± 721
Total Fat	3.7 ± 0.6	Sodium	1710 ± 252
Ash	1.0 ± 0.3		
Carbohydrate	16.9 ± 1.5		
Calories	1221 cal/kg ± 50 cal/kg		

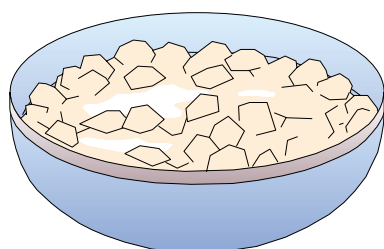
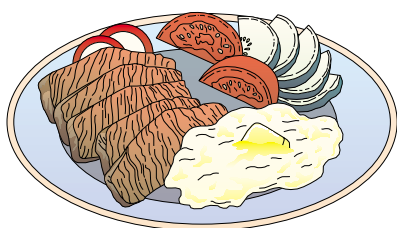


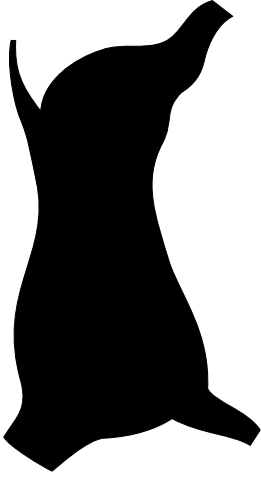
Table 3. Noncertified Mass Fractions (w<sub>B</sub>) for selected Fatty Acids

Fatty Acid	w <sub>B</sub> (in g/kg)
Caprylic (C8:0)	0.27 ± 0.35
Capric (C10:0)	0.28 ± 0.29
Palmitoleic (C16:1)	0.35 ± 0.03
Linolenic (C18:3)	0.61 ± 0.25
Arachidic (C20:0)	0.11 ± 0.06
Eicosenoic (C20:1)	0.13 ± 0.32
Arachidonic (C20:4)	0.09 ± 0.10
Behenic (C22:0)	0.11 ± 0.06



# Viande homogénéisée

SRM1546 : Mélange de viandes de poulet et porc , pour la détermination des acides gras, cholestérol, majeurs, calories et vitamines. Chaque flacon contient 85 g de produit



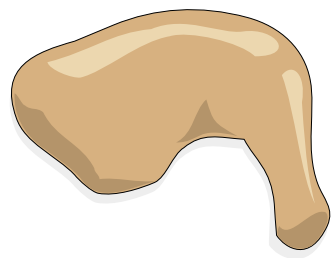
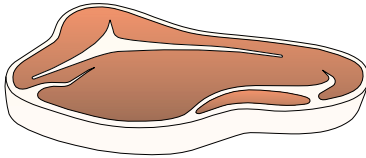
Constituent	Common Name	Mass Fraction (g/kg)
Decanoic Acid (C:10.0)	Capric Acid	0.171 +- 0.032
Dodecanoic Acid (C:12.0)	Lauric Acid	0.133 +- 0.028
Tetradecanoic Acid (C:14.0)	Myristic Acid	2.53 +- 0.19
Hexadecanoic Acid (C:16.0)	Palmitic Acid	45.6 +- 3.9
Octadecanoic Acid (C:18.0)	Stearic Acid	21.7 +- 2.9
(Z)-9-Octadecenoic Acid (C:18.1)	Oleic Acid	82.0 +- 9.6
Eicosanoic Acid (C:20.0)	Arachidic Acid	0.315 +- 0.063
Cholesterol		0.750 +- 0.072

Constituent	Mass Fraction (mg/kg)
Calcium	323 +- 28
Magnesium	163 +- 11
Phosphorus	1530 +- 100
Potassium	2370 +- 200
Sodium	9990 +- 716
Zinc	18.3 +- 1.3

Constituent	Common Name	Mass Fraction (g/kg)
Octanoic Acid (C8:0)	Caprylic Acid	0.024 +- 0.013
9-Hexadecenoic Acid (C16:1)	Palmitoleic Acid	6.83 +- 0.66
9,12-Octadecadienoic Acid (C18:2)	Linoleic Acid	19.6 +- 2.0
9,12,15-Octadecatrienoic Acid (C18:3)	Linolenic Acid	1.41 +- 0.35
11-Eicosenoic Acid	Eicosenoic Acid	1.56 +- 0.23
5,8,11,14-Eicosatetraenoic Acid (C20:4)	Arachidonic Acid	0.56 +- 0.25

## Autres viandes et os

Teneurs en mg/kg



	B CR-184	B CR-185R	B CR-186	G BW08552	R M8414	S RM1400	S RM1486	SRM1577b
	Viande bovine 15g	Foie de bovin 15g	Rein de porc 15g	Viande de porc 20g	Viande bovine en poudre 2x25g	Cendre d'os de bovin 50g	Os animal 50g	Foie de bovin 50g
Ag								0.039
Al					1.70			
As		33	0.063		0.007			
B					0.600			
Br				6.20	1.10			
Ca				1.47	1.45	3.82000	2.66000	116
Cd	0.013	544	2.71		0.013			0.5
Cl				1.870	1.880			278000
Co								
Cr					0.071			
Cu	0.002	277	.032	3.88	2.84			160
Fe	7.9		0.299	4.3.6	7.1.2	6.60	9.9	184
Hg	0.003		1.97		0.005			
I					0.035			
K				8130	15200	186	412	99600
Mg				9.88	9.60	0.684	0.466	601
Mn	334	11.07	8.50	0.480	0.080			1.05
Mo								3.5
N				123000	138000			
Na				2.020	2.100			24300
Ni					0.050			
P				8.130	8.360	1.79000	1.7.91	111000
Pb	239	172	0.306		0.380	9.07	1.33	0.129
Rb				4.2.7	2.8.2			13.7
S					7950			78000
Se	1.83	1.680	1.0.3	0.49	0.076			0.73
Sr					0.052	249	264	0.136
Zn	1.66	1.38.6	0.128	9.4.2	1.42	1.81	1.47	127

Sylab Ref	Nature	K	Na	Ca	Mg	Cu	Zn	Mn	Fe	Pb	Cd	As	Se	Mo	P	N	Co	Cr	Cl	Rb	size
		%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	
GBW 08552	Muscle de porc	1.40	0.202	147	988	3.88	94.2	0.48	43.6	(0.20)			0.49	(0.055)	0.813	12.27	(0.03)	(0.39)	0.187	42.7	20 g

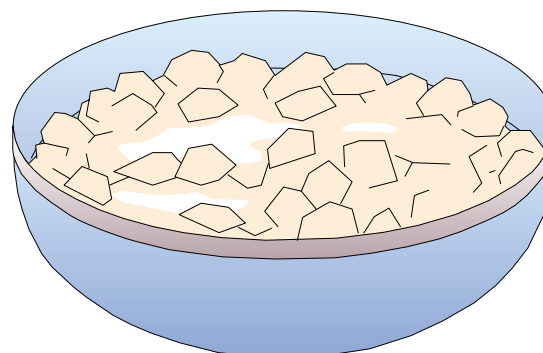
# Aliments Dietétique

SRM 1548a : Dosage des majeurs et mineurs dans les aliments pour régimes . Chacun des 2 flacons contient 6.5g d'aliment lyophilisé.

Element	Mass Fraction
Calcium	1967 +- 113
Chlorine	12078 +- 356
Magnesium	580 +- 26.7
Phosphorus	3486 +- 245
Potassium	6970 +- 125
Sodium	8132 +- 942
Sulfur	1928 +- 150

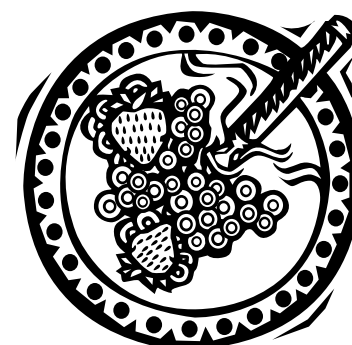
Analyte	Mass Fraction(a) (%)
Ash	4.042 +- 0.164
Carbohydrate(b)	58.36 +- 1.53
Fat (total)	19.41 +- 1.45
Nitrogen	3.03 +- 0.31
Protein(c)	18.08 +- 0.42
Total Dietary Fiber	4.31 +- 0.21

Element	Mass Fraction (mg/kg)
Aluminum	72.4 +- 1.52
Arsenic(b)	0.20 +- 0.01
Cadmium	0.035 +- 0.0015
Cesium	0.0098 +- 0.0003
Copper	2.32 +- 0.16
Iron	35.3 +- 3.77
Iodine	0.759 +- 0.103
Manganese	5.75 +- 0.17
Nickel	0.369 +- 0.023
Lead	0.044 +- 0.009
Selenium	0.245 +- 0.028
Tin	17.2 +- 2.57
Zinc	24.6 +- 1.79



Element	Mass Fraction(a) (mg/kg)
Boron(b)	4.16 +- 0.04
Barium	1.1 +- 0.10
Molybdenum	0.260 +- 0.017
Strontium	2.93 +- 0.10

Analyte	Mass Fraction (mg/kg)
Antimony	0.009
Bromine	9.64
Cobalt	0.028
Mercury	0.005
Silicon	78.7
Scandium	0.0008
Titanium	4.7



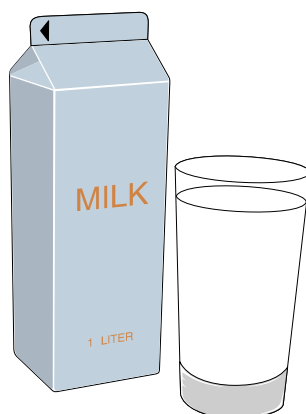
# Lait écrémé en poudre

SRM 1549 : 100g de lait en poudre

Element	Concentration		Element	Concentration	
	Mass Fraction (%)			Mass Fraction (%)	
Calcium	1.30	+ - 0.05	Potassium	1.69	+ - 0.03
Chlorine	1.09	+ - 0.02	Sodium	0.497	+ - 0.010
Magnesium	0.120	+ - 0.003	Sulfur	0.351	+ - 0.005
Phosphorus	1.06	+ - 0.02			
Element	Concentration		Element	Concentration	
	Mass Fraction (mg/kg)			Mass Fraction (mg/kg)	
Cadmium	0.0005	+ - 0.0002	Lead	0.019	+ - 0.003
Chromium	0.0026	+ - 0.0007	Manganese	0.26	+ - 0.06



Element	Concentration (mg/kg)	Element	Concentration (mg/kg)
Aluminum	2	Molybdenum	0.34
Antimony	0.00027	Rubidium	11
Arsenic	0.0019	Silicon	<50
Bromine	12	Silver	<0.0003
Cobalt	0.0041	Tin	<0.02



Compound	Number of Determinations	Concentration	
		Mass Fraction (%)	Method
Lactose	5	49	HPLC
	5	45	Proton NMR

# Laits et produits laitiers

Substance	BCR-380R	BCR-685
	Whole milk powder 100g (g / 100 g)	Skim milk powder 50g (g / 100 g)
Mass fraction		
Crude protein (Kjeldahl-N x 6.38)	28.6 ± 0.28	38.2 ± 0.4
Fat	26.9 ± 0.16	0.96 ± 0.12
Lactose (anhydrous)	37.1 ± 1.0	
Ash	6.00 ± 0.13	

	B CR-063R	B CR-150	BCR-151	IEAE-153	IAEA-155	R M8435
	Poudre de lait écrémé 50g		Petit-lait en poudre 50g	Lait entier poudre 40g		
B						1.10
Ba						0.580
Br				12.3	39.1	20.0
Ca	1 3500			1 2870		9 220
Cd		21.8	101		0.016	
Cl	9 9400				6 9200	8 420
Co					0.0427	
Cr					0.590	
Cs					0.086	
Cu	6 020	2.23	5.23			0.460
Fe	23200	11.8	50.1	2.53		1.80
Hg		9.40	101		0.003	
I	8100	1.29	5.35			2.30
K	1 77000			1 7600		1 3600
Mg	12600			1060	3190	814
Mn					9.30	0.170
Mo						0.290
N	623000					41900
Na	43700			4180	15.8	3560
Ni					0.540	
P	111000			10100	16200	7800
Pb	1 8.5	1 000	2 002		0.104	0.110
Rb				14.0	39.2	
S						2 650
Sc					0.028	
Se					0.064	0.131
Sr						4.35
Zn	4 90000			3 9.6	3 4.3	2 8.0



# Cholestérol et Vitamines solubles dans l'huile de noix de coco

SRM 1563 : 5 ampoules de 4 ml d'huile naturelle de noix de coco et 5 ampoules d'huile de noix de coco fortifiée, pour la détermination du cholestérol, des vitamines solubles, de la matière grasse, des acides gras.

Constituent	Mass Fraction (mg/kg)	Concentration (mg/L)
Cholesterolb	638 ± 8	585 ± 6

Constituent	SRM 1563-1 (Natural Oil)	SRM 1563-2 (Fortified Oil)
Fat	99 ± 3	97 ± 4
Decanoic Acid (C10:0) (Capric Acid)	5.8 ± 0.6	5.8 ± 0.3
Dodecanoic Acid (C12:0) (Lauric Acid)	46 ± 1	45 ± 2
Tetradecanoic Acid (C14:0) (Myristic Acid)	18 ± 1	18 ± 1
Hexadecanoic Acid (C16:0) (Palmitic Acid)	9.4 ± 0.9	9.2 ± 0.9
Octadecanoic Acid (C18:0) (Stearic Acid)	2.8 ± 0.4	2.7 ± 0.4
9-Octadecenoic (C18:1) (Oleic Acid)	7 ± 1	6.6 ± 0.9

Constituent	Mass Fraction (mg/kg)	Concentration (mg/L) <sup>a</sup>
1563-1 (Natural Oil)		
Cholesterol	3.4	3.1
Ergocalciferol	<1	<0.9
dl- $\alpha$ -Tocopheryl Acetate	<1	<0.9

	SRM 1563-1 (Natural Oil) Mass Fraction (%)	SRM 1563-2 (Fortified Oil) Mass Fraction (%)
Hexanoic Acid (C6:0) (Caproic Acid)	0.7	0.7
Octanoic Acid (C8:0) (Caprylic Acid)	7.8	7.6
Linoleic Acid (C18:2)	1.6	1.5
Eicosanoic Acid (C20:0) (Arachidic Acid)	0.1	0.1



National Institute of Standards & Technology

## Certificate of Analysis

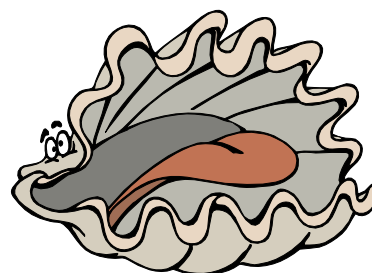
Standard Reference Material<sup>®</sup> 1563

Cholesterol and Fat-Soluble Vitamins in Coconut Oil  
(Natural and Fortified)



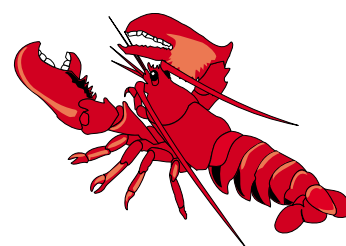
# Tissus d'huitre

SRM1566b : Chaque unité contient 25 grammes de tissus d'huitre lyophilisé, certifié pour 22 éléments et le méthylmercure.

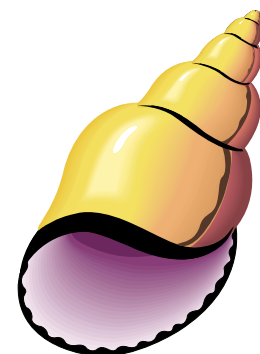


Element	Mass Fraction (%)	Element	Mass Fraction (%)
Nitrogen	7.6 ± 0.4	Potassium	0.652 ± 0.009
Calcium	0.0838 ± 0.0020	Sodium	0.3297 ± 0.0053
Chlorine	0.514 ± 0.010	Sulfur	0.6887 ± 0.0140
Magnesium	0.1085 ± 0.0023		
Element	Mass Fraction (mg/kg)	Element	Mass Fraction (mg/kg)
Aluminum	197.2 ± 6.0	Mercury (total)	0.0371 ± 0.0013
Arsenic	7.65 ± 0.65	Methylmercury (as mercury)	0.0132 ± 0.0007
Cadmium	2.48 ± 0.08	Nickel	1.04 ± 0.09
Cobalt	0.371 ± 0.009	Rubidium	3.262 ± 0.145
Copper	71.6 ± 1.6	Selenium	2.06 ± 0.15
Iron	205.8 ± 6.8	Silver	0.666 ± 0.009
Lead	0.308 ± 0.009	Thorium	0.0367 ± 0.0043
Manganese	18.5 ± 0.2	Vanadium	0.577 ± 0.023
		Zinc	± 46

Element	Mass Fraction (mg/kg)	Element	Mass Fraction (mg/kg)
Antimony	0.011 ± 0.002	Strontium	6.8 ± 0.2
Barium	8.6 ± 0.3	Tin	0.031 ± 0.008
Boron	4.5 ± 1.9	Uranium	0.2550 ± 0.0014
Hydrogen	7.2 ± 0.4		



Constituent	Mass Fraction as received (%) <sup>a</sup>	Mass Fraction dry-mass basis (%) <sup>a</sup>
Moisture	4.6 ± 3.6	0 (by definition)
Solids	95.4 ± 3.6	100 (by definition)
Carbohydrates	43.4 ± 3.2	45.4 ± 1.7
Ash	3.87 ± 0.09	4.05 ± 0.15
Fat	5.5 ± 1.2	5.8 ± 1.1
Protein	42.6 ± 1.3	44.7 ± 2.6
Protein Nitrogen	6.82 ± 0.20	7.16 ± 0.42
Total Dietary Fiber	6.5 ± 1.6	6.8 ± 1.4
Caloric Content	(394 ± 20) kcal/100 g	(412.7 ± 5.9) kcal/100 g
Tetradecanoic Acid (C14:0) (Myristic Acid)	0.403 ± 0.016	0.421 ± 0.013
Pentadecanoic Acid (C15:0)	0.079 ± 0.020	0.083 ± 0.015
Hexadecanoic Acid (C16:0) (Palmitic Acid)	2.16 ± 0.064	2.27 ± 0.063
(Z)-9-Hexadecenoic Acid (C16:1) (Palmitoleic Acid)	0.362 ± 0.022	0.379 ± 0.023
Heptadecanoic Acid (C17:0) (Margaric Acid)	0.168 ± 0.054	0.178 ± 0.041
Octadecanoic Acid (C18:0) (Stearic Acid)	0.424 ± 0.86 ± 0.012	0.444 ± 0.014
(Z)-9-Octadecenoic Acid (C18:1) (Oleic Acid)	0.86 ± 0.012	0.20 ± 0.90 ± 0.014
(all-Z)-5,8,11,14,17-Eicosapentaenoic Acid (C20:5) (Timnodonic Acid)	± 0.012	0.068 ± 0.014



# farine de blé

SRM1657: 80g de farine pour la calibration des instruments pour la détermination des éléments traces .

## Minor Constituents

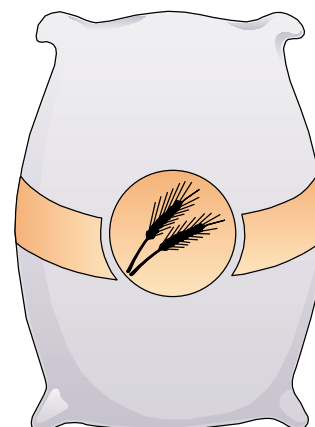
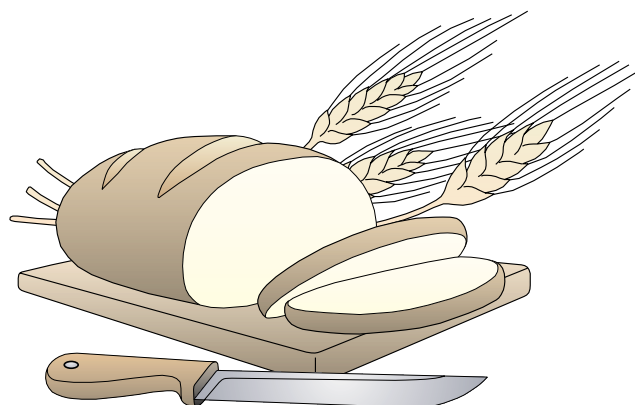
Element <sup>b</sup>	Concentration, Percent by Weight <sup>c</sup>
Calcium <sup>1a,2b</sup>	0.0191 ± 0.0004
Magnesium <sup>1a,2a,4a</sup>	0.040 ± 0.002
Phosphorus <sup>2a,2c,5</sup>	0.134 ± 0.006
Potassium <sup>2b,4a</sup>	0.133 ± 0.003
Sulfur <sup>3b</sup>	0.165 ± 0.002



## Trace Constituents

Element <sup>b</sup>	Concentration, µg/g <sup>c</sup>
Aluminum <sup>2a,4a</sup>	5.7 ± 1.3
Cadmium <sup>1b,4b</sup>	0.026 ± 0.002
Copper <sup>1a,4a,b</sup>	2.1 ± 0.2
Iron <sup>1a,3b,4a</sup>	14.1 ± 0.5
Manganese <sup>1a,4a</sup>	9.4 ± 0.9
Molybdenum <sup>2c,3a,4a</sup>	0.48 ± 0.03
Selenium <sup>1c,4a</sup>	1.1 ± 0.2
Sodium <sup>2b,4a</sup>	6.1 ± 0.8
Zinc <sup>1a,4a</sup>	11.6 ± 0.4

Element	Content µg/g	Element	Content µg/g
Arsenic	( 0.006 )	Mercury	( 0.0005 )
Bromine	( 6 )	Rubidium	( 0.7 )
Chlorine	( 565 )	Tin	( 0.0033 )
Cobalt	( 0.006 )	Tungsten	( 0.0008 )
Iodine	( 0.0009 )	Uranium	( 0.0003 )
Lead	( < 0.020 )	Vanadium	( 0.011 )



# Farine de riz

SRM1568a : 80 g de produit pour la détermination des mineurs et éléments trace.

## Minor Elements

Element	$w_B$ (in %)
Calcium	0.0118 ± 0.0006
Magnesium	0.056 ± 0.002
Phosphorus	0.153 ± 0.008
Potassium	0.1280 ± 0.0008
Sulfur	0.120 ± 0.002



## Trace Elements

Element	$w_B$ (in mg/kg)	Element	$w_B$ (in mg/kg)
Aluminum	4.4 ± 1.0	Mercury	0.0058 ± 0.0005
Arsenic	0.29 ± 0.03	Molybdenum	1.46 ± 0.08
Cadmium	0.022 ± 0.002	Rubidium	6.14 ± 0.09
Copper	2.4 ± 0.3	Selenium	0.38 ± 0.04
Iron	7.4 ± 0.9	Sodium	6.6 ± 0.8
Manganese	20.0 ± 1.6	Zinc	19.4 ± 0.5

Element	$w_B$ (in mg/kg)	Element	$w_B$ (in mg/kg)
Antimony	0.0005	Lead	<0.010
Bromine	8	Tin	0.0047
Chlorine	300	Tungsten	0.0012
Cobalt	0.018	Uranium	0.0003
Iodine	0.009	Vanadium	0.007

# Farine de Riz pour les éléments majeurs

	BCR-381	
Substance	Rye Flour teneurs en %	
Major components (g / 100 g)		
N (Kjeldahl)	1.25	± 0.02
Fat	1.1	± 0.1
Starch <sup>1)</sup>		(75.9)
Starch & Sugars <sup>2)</sup>		(90)
Dietary Fibre (Englyst)		(7.7)
Dietary Fibre (AOAC 1985/1988) <sup>3)</sup>	8.2	± 0.2
Ash at 550 °C	0.86	± 0.03
Essential elements (g/kg)		
Ca	0.22	± 0.02
Cl	0.46	± 0.02
K	2.9	± 0.2
Mg	0.43	± 0.01
Na	0.019	± 0.003
P		(1.6)



# Epinars pour éléments traces

SRM 1570a: 60g pour la détermination des majeurs, mineurs, et éléments traces, calories et fibres alimentaires totales

Element	Mass Fraction (%)	Element	Mass Fraction (%)
Calcium	1.527 ± 0.041	Nitrogen (Total) <sup>(d)</sup>	6.06 ± 0.20
Phosphorus	0.518 ± 0.011	Nitrogen (Organic) <sup>(d)</sup>	6.20 ± 0.25
Potassium	2.903 ± 0.052	Nitrogen (Protein) <sup>(d)</sup>	5.68 ± 0.13
Sodium	1.818 ± 0.043		

Element	(mg/kg)	Element	(mg/kg)
Aluminum	310 ± 0.06	Mercury	0.030 ± 0.003
Arsenic	8 ± 0.012	Nickel	2.14 ± 0.10
Boron	37.6 ± 1.0	Selenium	0.117 ± 0.009
Cadmium	2.89 ± 0.07	Strontium	55.6 ± 0.8
Cobalt	0.39 ± 0.05	Thorium	0.048 ± 0.003
Copper	12.2 ± 0.6	Vanadium	0.57 ± 0.03
Manganese	75.9 ± 1.9	Zinc	82 ± 3

Element	Mass Fraction (mg/kg)	Element	Mass Fraction (mg/kg)
Europium	0.0055 ± 0.0010	Rubidium	12.7 ± 1.6
Scandium	0.0055 ± 0.0006	Uranium	0.155 ± 0.023

Analyte	Mass Fraction, as received (%)	Mass Fraction, dry-mass basis (%) (b)
Moisture	3.45 ± 0.25	0 (by definition)
Solids	96.55 ± 0.25	100 (by definition)
Ash	14.66 ± 0.38	15.18 ± 0.38
Protein	35.8 ± 3.0	37.0 ± 3.1
Total dietary fiber	30.5 ± 4.3	31.6 ± 4.4

Element	Mass Fraction (%)
Magnesium	0.89
Sulfur	0.46
Element	Mass Fraction (mg/kg)

## Epinars hachés

SRM 2385 : 4\*70g Pour la détermination des majeurs, calories, caroténoïdes, vitamines, et des éléments mineurs.

	mg/kg		
Calcium	624	±	40
Iron	17.1	±	1.9
Magnesium	368	±	30
Manganese	3.81	±	0.10
Phosphorus	323.7	±	6.6
Potassium	3650	±	250
Zinc	8.37	±	0.37

	%		
Solid	5.28	±	0.10
Ash	0.97	±	0.05
Fatc	0.20	±	0.06
Protein	1.42	±	0.13
Carbohydrate (by difference)	2.73	±	0.18
Total Dietary Fiber	1.55	±	0.28
Energyd	(18.16	±	0.50) kcal/100 g

Total Lutein (includes esters)	32.9	±	6.5
Total -Carotene	19.2	±	2.9

Copper	0.90	±	0.16
Sodium	47	±	1

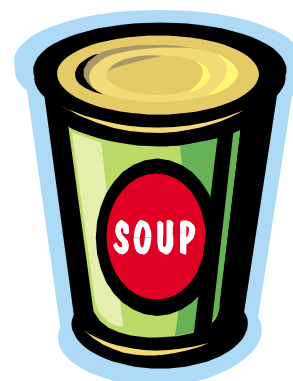
Vitamin B2	0.73	±	0.05
Niacin	2.99	±	0.43
Trans- -Carotene b	15.1	±	3.1



# Repas pour enfants

SRM 1846 : 30 g de nourriture pour enfant pour de dosage des majeurs, les calories, les vitamines, les minéraux, et éléments traces

	%		g/100 cal	
Solids	98.02	+ - 0.27	19.01	+ - 0.16
Ash	2.913	+ - 0.048	0.565	+ - 0.010
Fat	27.1	+ - 0.6	5.25	+ - 0.12
Nitrogen	1.739	+ - 0.058	0.337	+ - 0.012
Protein	11.10	+ - 0.37	2.153	+ - 0.073



	Mass Fraction (mg/kg)	Units Specified by Infant Formula Act [3]
Vitamin C	1146 ± 66	(22.2 ± 1.3) mg/100 kcal
Vitamin B <sub>2</sub>	17.4 ± 1.0	(337 ± 21) µg/100 kcal
Vitamin B <sub>6</sub> (pyridoxine hydrochloride)	8.4 ± 1.0	(162 ± 20) µg/100 kcal
Niacin	63.3 ± 7.6	(1230 ± 150) µg/100 kcal
Iodine	1.11 ± 0.17	(21.4 ± 3.3) µg/100 kcal

	mg/kg	Units Specified by Infant Formula Act [3]
Vitamin D	0.117 + - 0.011	(90.5 + - 8.7) IUd/100 kcal
-Tocopherol	20.19 + - 1.69	not required by Infant Formula Act
-Tocopherol	75.01 + - 5.07	not required by Infant Formula Act
Vitamin K	0.944 + - 0.041	(18.32 + - 0.81) µg/100 kcal
Vitamin B1 hydrochloride	10.9 + - 1.5	(212 + - 28) µg/100 kcal
Vitamin B12	0.039 + - 0.003	(0.746 + - 0.051) µg/100 kcal
Folic Acid	1.29 + - 0.28	(25.1 + - 5.5) µg/100 kcal
Pantothenic acid	48.7 + - 7.3	(940 + - 140) µg/100 kcal
Biotin	0.411 + - 0.066	(8.0 + - 1.3) µg/100 kcal
Choline	1250 + - 120	(24.2 + - 2.6) mg/100 kcal
Inositol	940 + - 190	(18.2 + - 3.7) mg/100 kcal



	mg/kg	Units Specified by Infant Formula Act [3]
Calcium	3670 + - 200	(71.1 + - 4.0) mg/100 kcal
Phosphorus	2610 + - 150	(50.7 + - 2.9) mg/100 kcal
Magnesium	538 + - 29	(10.43 + - 0.56) mg/100 kcal
Iron	63.1 + - 4.0	(1.225 + - 0.079) mg/100 kcal
Zinc	60.0 + - 3.2	(1.164 + - 0.063) mg/100 kcal
Copper	5.04 + - 0.27	(97.7 + - 5.2) µg/100 kcal
Sodium	2310 + - 130	(44.8 + - 2.6) mg/100 kcal
Potassium	7160 + - 380	(138.9 + - 7.5) mg/100 kcal
Chloride	4920 + - 300	(95.5 + - 5.9) mg/100 kcal

	%	
Dodecanoic acid (C12:0) (Lauric acid)	3.65	+ - 0.56
Tetradecanoic acid (C14:0) (Myristic acid)	1.54	+ - 0.13
Hexadecanoic acid (C16:0) (Palmitic acid)	2.90	+ - 0.15
(Z)-9-Hexadecenoic acid (C16:1) (Palmitoleic acid)	0.0208	+ - 0.0025
Octadecanoic acid (C18:0) (Stearic acid)	2.84	+ - 0.14
9-Octadecenoic acid (C18:1) (Elaidic acid)	4.00	+ - 0.54
(Z,Z)-9,12-Octadecadienoic acid (C18:2) (Linoleic acid)	3.48	+ - 0.40
(Z,Z,Z)-9,12,15-Octadecatrienoic acid (C18:3) (Linolenic acid)	0.0982	+ - 0.0048
Eicosanoic acid (C20:0) (Arachidic acid)	0.088	+ - 0.011
Docosanoic acid (C22:0) (Behenic acid)	0.0566	+ - 0.0075

# Aliments pour bébés

SRM 2383 : MRC pour la détermination des majeurs, calories, vitamines, et minéraux dans une matrice alimentaire.

Analyte	Mass Fraction (mg/kg)
Trans-Retinol	0.80 +- 0.15
fÁ-Tocopherol	1.51 +- 0.43
fÁ-Tocopherol	5.51 +- 0.93
-Tocopherol	25.0 +- 3.3
Lutein (includes esters)	1.16 +- 0.33
Zeaxanthin (includes esters)	0.86 +- 0.14
-Cryptoxanthin (includes esters)	1.38 +- 0.31
Total -Carotene	0.83 +- 0.16
Total -Carotene	3.12 +- 0.63

Analyte	Mass Fraction (mg/kg)
Vitamin B1	1.15 +- 0.19
Vitamin B2	2.70 +- 0.38
Vitamin B6	1.51 +- 0.22
Vitamin B12	0.0044 +- 0.0019
Niacin	18.1 +- 2.2
Pantothenic Acid	3.7 +- 1.4
Biotin	0.054 +- 0.012

Analyte	Mass Fraction (mg/kg)
Retinyl Palmitate	1.45 +- 0.28
-Tocopherol (free)	10.1 +- 2.2
Trans-Vitamin K	0.132 +- 0.010
Cis-Vitamin K	0.012 +- 0.002
Total Vitamin K	0.151 +- 0.017
Lutein (free)	0.75 +- 0.35
Zeaxanthin (free)	0.46 +- 0.10
-Cryptoxanthin (free)	0.47 +- 0.12
Trans-Lycopene	6.3 +- 1.2
Total Lycopene	7.0 +- 1.5
Trans- -Carotene	0.85 +- 0.24
Trans- -Carotene	2.40 +- 0.80



Analyte	Mass Fraction (mg/kg)
9-Cis- -Carotene	0.42 +- 0.14
13 Cis- -Carotene	0.297 +- 0.027
15- Cis- -Carotene	0.158 +- 0.049
13- + 15-Cis- -Carotene	0.321 +- 0.071

Sugars	Mass Fraction (%)
Fructose	4.1
Lactose	7.8
Sucrose	2.6
Glucose	3.8

Analyte	Mass Fraction (mg/kg)
Vitamins	(mg/kg)
Vitamin D	0.014
Folic acid	0.15
Choline (ion)	250
Inositol	1500
Vitamin C(b)	
Trace Elements	
Iodine	0.35
Molybdenum	0.065
Selenium	0.026

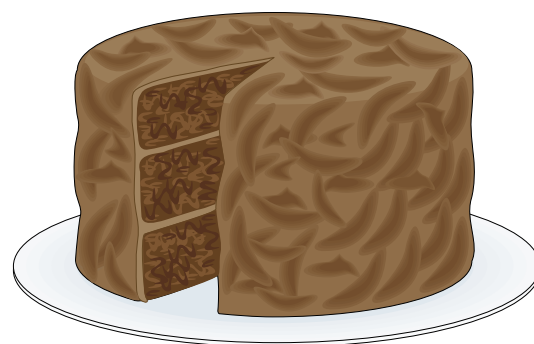
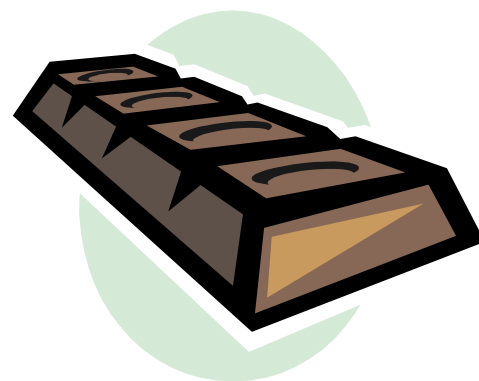
Analyte	Mass fraction
Solids	(37.19 +- 0.46) %
Ash	(1.09 +- 0.04) %
Fat	(4.67 +- 0.26) %
Fat (sum of fatty acids)	(4.35 +- 0.33) %
Saturated Fat	(1.92 +- 0.08) %
Monounsaturated Fat	(1.60 +- 0.06) %
Polyunsaturated Fat	(0.86 +- 0.04) %
Protein	(3.89 +- 0.17) %
Carbohydrates	(27.49 +- 0.65) %
Total Dietary Fiber	(0.96 +- 0.43) %
Cholesterol	(22.6 +- 4.0) µg/g
Calories	(166.5 +- 3.5) kcal/100g

Analyte	Mass Fraction (mg/kg)
Calcium	853 +- 28
Chloride	890 +- 15
Copper	1.42 +- 0.12
Iron	8.44 +- 0.44
Magnesium	248 +- 5
Manganese	1.39 +- 0.11
Phosphorus	948 +- 33
Potassium	3600 +- 100
Sodium	390 +- 28
Zinc	10.5 +- 0.3

# Chocolat en morceaux

SRM 2384 : 5x 91g Standard pour l'analyse des majeurs ,acides gras , calories, vitamines, éléments, catechines, caféine, theobromine, et acrylamide dans les tablettes

Constituent	Mass Fraction (%)		Mass Fraction (%)	
	As the Triglyceride		As the Fatty Acid	
Tetradecanoic Acid (C14:0) (Myristic Acid)	0.080	+ - 0.005	0.076	+ - 0.005
Hexadecanoic Acid (C16:0) (Palmitic Acid)	13.06	+ - 0.27	12.44	+ - 0.26
(Z)-9-Hexadecenoic Acid (C16:1) (Palmitoleic Acid)	0.133	+ - 0.007	0.127	+ - 0.007
Octadecanoic Acid (C18:0) (Stearic Acid)	18.01	+ - 0.40	17.24	+ - 0.38
(Z)-9-Octadecenoic Acid (C18:1) (Oleic Acid)	16.44	+ - 0.36	15.73	+ - 0.35
(Z)-11-Octadecenoic Acid (C18:1) (Vaccenic Acid)	0.180	+ - 0.018	0.172	+ - 0.017
(Z,Z)-9,12-Octadecadienoic Acid (C18:2) (Linoleic Acid)	1.524	+ - 0.048	1.458	+ - 0.046
(Z,Z,Z)-9,12,15-Octadecatrienoic Acid (C18:3) (Linolenic Acid)	0.097	+ - 0.006	0.093	+ - 0.006
Eicosanoic Acid (C20:0) (Arachidic Acid)	0.521	+ - 0.013	0.501	+ - 0.012
Docosanoic Acid (C22:0) (Behenic Acid)	0.091	+ - 0.006	0.088	+ - 0.006
Tetracosanoic Acid (C24:0) (Lignoceric Acid)	0.050	+ - 0.002	0.050	+ - 0.002



Constituent	Mass Fraction (mg/kg)		
Caffeine	1 060	+ -	50
Theobromine	11 600	+ -	1 100
Calcium	840	+ -	74
Iron	132	+ -	11
(+)-Catechin	245	+ -	51
(-)-Epicatechin	1 220	+ -	240
Catechin monomers	1 490	+ -	220

Constituent	Mass Fraction (%)		
Solids	98.37	+ -	0.35
Ash	2.78	+ -	0.11
Protein	13.18	+ -	0.46
Carbohydrate (by difference)	32.4	+ -	1.9
Total Dietary Fiber	14.5	+ -	3.0
Calories	(631.0	+ -	9.3) kcal/100 g

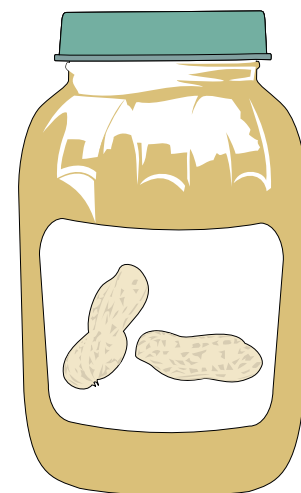


# Beurre de cacahuètes

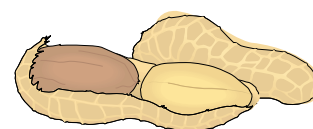
SRM 2387 : 3x 170g pour la détermination et la validation des méthodes de dosage pour les acides gras , calories, vitamines, éléments, amino acides, aflatoxines,et acrylamide .

	%		
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
Polysaturated Fat	13.2	+ -	0.4

	ng/g		
Aflatoxin B1	4.2	+ -	0.9
Aflatoxin B2	0.7	+ -	0.3
Total Aflatoxins	5.0	+ -	0.5
Acrylamide	87.0	+ -	7.8



	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) (Lignoceric Acid)	0.808	+ -	0.045	0.781	+ -	0.044



	mg/kg		
Calcium	411	+ -	18
Copper	4.93	+ -	0.15
Iron	16.4	+ -	0.8
Magnesium	1680	+ -	70
Manganese	16.0	+ -	0.6
Phosphorus	3378	+ -	92
Potassium	6070	+ -	200
Sodium	4890	+ -	140
Zinc	26.3	+ -	1.1
-Tocopherol	10	+ -	3
- + -Tocopherol	100	+ -	19
-Tocopherol	108	+ -	11

	%		
Solids	99.2	+ -	2.1
Ash	3.10	+ -	0.10
Protein	22.2	+ -	0.5
Carbohydrate (by difference)	25.0	+ -	1.8
Total Dietary Fiber	5.57		0.42
Calories			
Caloric Content(c)	629 kcal/100 g	+ -	15 kcal/100 g

	%		
Alanine	0.93	+ -	0.10
Arginine	2.65	+ -	0.31
Aspartic Acid	2.83	+ -	0.19
Cystine	0.27	+ -	0.01
Glutamic Acid	4.69	+ -	0.26
Glycine	1.41	+ -	0.12
Histidine	0.55	+ -	0.06
Isoleucine	0.77	+ -	0.07
Leucine	1.56	+ -	0.09
Lysine	0.78	+ -	0.08
Methionine	0.21	+ -	0.04
Phenylalanine	1.21	+ -	0.08
Proline	0.96	+ -	0.08
Serine	1.16	+ -	0.09
Threonine	0.54	+ -	0.08
Tryptophan	0.21	+ -	0.06
Tyrosine	0.81	+ -	0.14
Valine	0.94	+ -	0.09



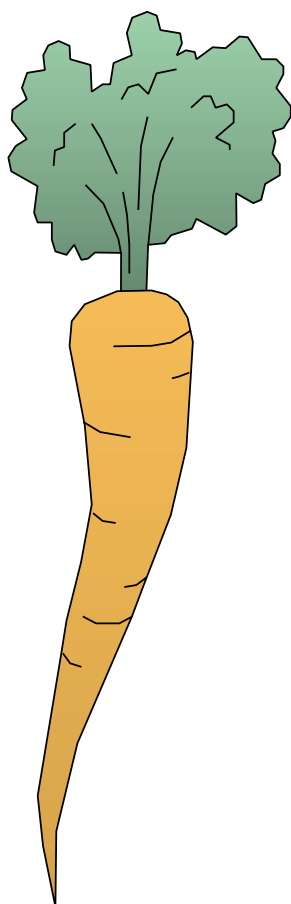
# Extrait de Carotte dans l'huile

SRM 3276 : 5 ampoules de 1 ml pour la détermination des caroténoïdes, tocophérols, et acides gras .l

	μg/g		
-Tocopherol(b,c,d,e)	373	+-	34
-Tocopherol(b,c,d,e)	443	+-	64

	μg/g		
trans- -Carotène	21.4	+-	5.0
Total cis- -Carotène	13.9	+-	4.4
Total -Carotène	35.5	+-	8.3
trans- -Carotène	3.14	+-	0.52

	%		
Hexadecanoic Acid (C16:0) (Palmitic Acid)	1.36	+-	0.05
(Z)-9-Hexadecenoic Acid (C16:1 n-7) (Palmitoleic Acid)	0.0147	+-	0.0014
Heptadecanoic Acid (C17:0)	0.0213	+-	0.0017
Octadecanoic Acid (C18:0) (Stearic Acid)	1.14	+-	0.02
(Z)-9-Octadecenoic Acid (C18:1 n-9) (Oleic Acid)	3.68	+-	0.06
(Z)-11-Octadecenoic Acid (C18:1 n-7) (Vaccenic Acid)	0.519	+-	0.012
(Z,Z)-9,12-Octadecadienoic Acid (C18:2 n-6) (Linoleic Acid)	6.64	+-	0.11
(Z,Z,Z)-9,12,15-Octadecatrienoic Acid (C18:3 n-3) (Linolenic Acid)	0.816	+-	0.014
Eicosanoic Acid (C20:0) (Arachidic Acid)	0.0578	+-	0.0025
(Z)-11-Eicosenoic Acid (C20:1 n-9) (Gondoic Acid)	0.353	+-	0.006
Docosanoic Acid (C22:0) (Behenic Acid)	0.126	+-	0.016
Tetracosanoic Acid (C24:0) (Lignoceric Acid)	0.0242	+-	0.0018



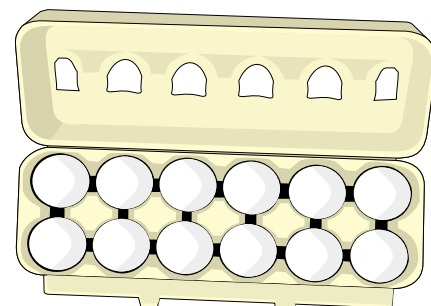
# Poudre d'oeufs entiers

RM8415 : 35 g de poudre d'oeuf déshydraté en flacon de verre scelle sous sachet aluminium-nylon pour la détermination des majeurs, mineurs, et éléments traces, les acides gras et calories.

Element	Mass Fraction %		
Nitrogen	6.30	+-	0.13
Phosphorus	1.001	+-	0.032
Sulfur	0.512	+-	0.050
Chlorine	0.508	+-	0.032
Sodium	0.377	+-	0.034
Potassium	0.319	+-	0.037
Calcium	0.248	+-	0.019

Analyte	Mass Fraction % (as received)		Mass Fraction % (dry-mass basis)	
Moisture	3.53	+-	0.54	0 (by definition)
Solids	96.47	+-	0.54	100 (by definition)
Ash	4.78	+-	0.53	4.96 +- 0.55
Protein(c)	37.8	+-	1.2	39.2 +- 1.1

Element	Mass Fraction (mg/kg)		
Aluminum	540	+-	86
Magnesium	305	+-	27
Iron	112	+-	16
Zinc	67.5	+-	7.6
Strontium	5.63	+-	0.46
Copper	2.70	+-	0.35
Iodine	1.97	+-	0.46
Manganese	1.78	+-	0.38
Selenium	1.39	+-	0.17
Vanadium	0.459	+-	0.081
Boron	0.41	+-	0.26
Chromium	0.37	+-	0.18
Molybdenum	0.247	+-	0.023
Lead	0.061	+-	0.012
Cobalt	0.012	+-	0.005
Mercury	0.004	+-	0.003



Element	Mass Fraction (mg/kg)(a)
Antimony	0.002
Arsenic	0.01
Barium	3
Cadmium	0.005

Analyte	Mass Fraction % (as received)	Mass Fraction % (dry-mass basis)
Tetradecanoic Acid (C14:0) (Myristic Acid)	0.16	0.16
Pentadecanoic Acid (C15:0)	0.035	0.036
Hexadecanoic Acid (C16:0) (Palmitic Acid)	8.8	9.1
(Z)-9-Hexadecenoic Acid (C16:1 n-7) (Palmitoleic Acid)	1.8	1.8
Heptadecanoic Acid (C17:0) (Margaric Acid)	0.11	0.11
Octadecanoic Acid (C18:0) (Stearic Acid)	2.6	2.7
(Z)-9-Octadecenoic Acid (C18:1 n-9) (Oleic Acid)	17.0	17.6
(Z)-11-Octadecenoic Acid (C18:1 n-7) (Vaccenic Acid)	1.3	1.4
(Z,Z)-9,12-Octadecadienoic Acid (C18:2 n-6) (Linoleic Acid)	3.7	3.8
(Z,Z,Z)-9,12,15-Octadecatrienoic Acid (C18:3 n-3) (Linolenic Acid)	0.36	0.37
(Z)-11-Eicosenoic Acid (C20:1 n-9) (Gondoic Acid)	0.15	0.15

Analyte	Mass Fraction, (as received) (mg/kg)(a)	Mass Fraction, (dry-mass basis) (mg/kg)(a)
Vitamin B1	2.8	2.9
Vitamin B2	12	13
Vitamin B6	3.7	3.8
Vitamin B12	0.068	0.070
Biotin	1.3	1.3
Folic Acid	1.8	1.8

# Gluten de blé

RM 8418: 50g de poudre sèche de gluten de blé pour la détermination des majeurs, mineurs, et éléments traces, les acides gras et calories.

	Mass Fraction % as received	Mass Fraction % dry-mass basis
Moisture	7.32 +- 0.94	0 (by definition)
Solids	92.68 +- 0.94	100 (by definition)
Ash	0.869 +- 0.073	0.937 +- 0.082
Protein	76.7 +- 2.4	82.7 +- 3.2
Carbohydrate	10.3 +- 3.3	11.1 +- 3.4
Fat	4.8 +- 1.0	5.2 +- 1.1
Hexadecanoic Acid (C16:0) (Palmitic Acid)	0.97 +- 0.13	1.05 +- 0.14
Octadecanoic Acid (C18:0) (Stearic Acid)	0.058 +- 0.014	0.063 +- 0.014
(Z) - 9 - Octadecenoic Acid (C18:1) (Oleic Acid)	0.87 +- 0.24	0.94 +- 0.24
(Z,Z) - 9,12 - Octadecadienoic Acid (C18:2) (Linoleic Acid)	2.48 +- 0.72	2.68 +- 0.78
(Z,Z,Z) - 9,2,15 - Octadecatrienoic Acid (C18:3) (Linolenic Acid)	0.091 +- 0.021	0.098 +- 0.022
Eicosenoic Acid (C20:1) (Gadoleic Acid)	0.038 +- 0.011	0.041 +- 0.011
Calories (c)	(391.4 +- 7.2) kcal/100 g	(422.2 +- 5.2) kcal/100 g

Minor and Trace Constituents	Mass Fraction (mg/kg)(a)	
Magnesium	510	+- 47
Potassium	472	+- 61
Calcium	369	+- 35
Iron	54.3	+- 6.8
Zinc	53.8	+- 3.7
Manganese	14.3	+- 0.8
Aluminum	10.8	+- 3.0
Copper	5.94	+- 0.72
Selenium	2.58	+- 0.19
Strontium	1.71	+- 0.26
Barium	1.53	+- 0.26
Molybdenum	0.76	+- 0.09
Nickel	0.13	+- 0.04
Lead	0.10	+- 0.05
Cadmium	0.064	+- 0.022
Iodine	0.060	+- 0.013
Chromium	0.053	+- 0.013
Cobalt	0.010	+- 0.006
Mercury	0.0019	+- 0.0006

Major Constituents	Mass Fraction (%)	
Nitrogen	14.64	+- 0.21
Sulfur	0.845	+- 0.085
Chlorine	0.362	+- 0.022
Phosphorus	0.219	+- 0.015
Sodium	0.142	+- 0.011

Element	Mass Fraction (mg/kg)
Antimony	0.01
Arsenic	0.02
Boron	0.4
Bromine	3.6
Fluorine	0.43
Rubidium	0.4
Titanium	2
Vanadium	0.04



	Mass Fraction, as received (%)	Mass Fraction, dry-mass basis (%)
Pentadecanoic Acid (C15:0)	0.0078	0.0084
9 - Hexadecenoic Acid (C16:1) (Palmitoleic Acid)	0.0081	0.0087
Heptadecanoic Acid (C17:0) (Margaric Acid)	0.0060	0.0065
9 - Octadecenoic Acid (C18:1) (Elaidic Acid)	0.010	0.011
Eicosanoic Acid (C20:0) (Arachidic Acid)	0.0094	0.010
Docosanoic Acid (C22:0) (Behenic Acid)	0.019	0.020
13 - Docosenoic Acid (C22:1) (Erucic Acid)	0.0058	0.0062
Total Dietary Fiber	2.4	2.6

# Poudre de Lait Entier

RM 8435 consiste en 40 g de lait entier en poudre conditioné en flacon de verre scellé souche pochette aluminium - nylon

Element	Mass Fraction %		
Nitrogen	4.187	+-	0.043
Potassium	1.363	+-	0.047
Calcium	0.922	+-	0.049
Chlorine	0.842	+-	0.044
Phosphorus	0.780	+-	0.049
Sodium	0.356	+-	0.040
Sulfur	0.265	+-	0.035

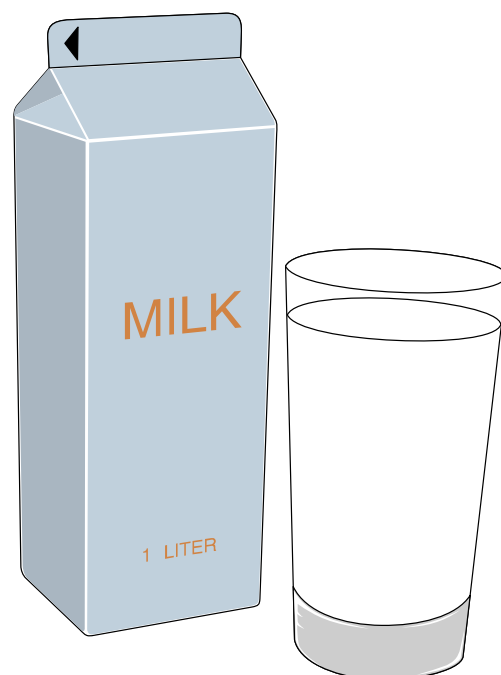
Element	Mass Fraction (mg/kg)		
Magnesium	814	+-	76
Zinc	28.0	+-	3.1
Bromine	20	+-	10
Strontium	4.35	+-	0.50
Iodine	2.3	+-	0.4
Iron	1.8	+-	1.1
Boron	1.1	+-	0.23
Copper	0.46	+-	0.08
Molybdenum	0.29	+-	0.13
Manganese	0.17	+-	0.05
Selenium	0.131	+-	0.014

Analyte	Mass Fraction, as received (%) <sup>(a,b)</sup>			Mass Fraction, dry-mass basis (%) <sup>(a)</sup>		
Moisture	3.54	+-	0.57	0 (by definition)		
Solids	96.46	+-	0.57	100 (by definition)		
Ash	5.97	+-	0.11	6.19	+-	0.13
Protein <sup>b</sup>	25.86	+-	0.67	26.81	+-	0.67
Carbohydrate	43.4	+-	3.0	45.0	+-	2.9
Fat	21.3	+-	2.4	22.0	+-	2.7
Butanoic Acid (C4:0) (Butyric Acid)	1.03	+-	0.11	1.07	+-	0.11
Decanoic Acid (C10:0) (Capric Acid)	0.70	+-	0.18	0.73	+-	0.19
Dodecanoic Acid (C12:0) (Lauric Acid)	0.81	+-	0.13	0.84	+-	0.14
Tetradecanoic Acid (C14:0) (Myristic Acid)	2.72	+-	0.28	2.83	+-	0.31
Pentadecanoic Acid (C15:0)	0.302	+-	0.030	0.313	+-	0.033
Hexadecanoic Acid (C16:0) (Palmitic Acid)	7.11	+-	0.67	7.38	+-	0.73
Heptadecanoic Acid (C17:0) (Margaric Acid)	0.191	+-	0.020	0.198	+-	0.020
Octadecanoic Acid (C18:0) (Stearic Acid)	2.51	+-	0.19	2.60	+-	0.21
(Z)-9-Octadecenoic Acid (C18:1) (Oleic Acid)	3.54	+-	0.72	3.67	+-	0.76
9-Octadecenoic Acid (C18:1) (Z-Elaidic Acid)	0.417	+-	0.058	0.432	+-	0.060
Eicosanoic Acid (C20:0) (Arachidic Acid)	0.051	+-	0.005	0.053	+-	0.005
Calories <sup>(c)</sup>	(470	+-	<sup>10)</sup> kcal/100 g	(490	+-	<sup>10)</sup> kcal/100 g

Analyte	Mass Fraction, as received (mg/kg)			Mass Fraction, dry-mass basis (mg/kg)		
Vitamin B1	1.80	+-	0.52	1.87	+-	0.54
Vitamin B2	10.6	+-	3.2	11.0	+-	3.4
Vitamin B6	1.86	+-	0.58	1.94	+-	0.61
Vitamin B12	0.017	+-	0.003	0.018	+-	0.003
Niacin	7.35	+-	0.86	7.65	+-	0.93
Pantothenic Acid	25.6	+-	5.4	26.7	+-	5.7

Element	Mass Fraction (mg/kg)	Mass Fraction %	Mass Fraction %
Aluminum	0.9		0.030
Arsenic	0.001		0.031
Cadmium	0.0002		0.022
Cobalt	0.003		0.23
Chromium	0.5		0.30
Fluorine	0.17		0.31
Nickel	0.01		0.31
Rubidium	16		0.31
Titanium	4		0.31
Tungsten	0.002		0.022
		Tridecanoic Acid (C13:0)	0.030
		9-Tetradecenoic Acid (C14:1) (Myristoleic Acid)	0.22
		9-Hexadecenoic Acid (C16:1) (Palmitoleic Acid)	0.30
		Docosanoic Acid (C22:0) (Behenic Acid)	0.030
		Tetracosanoic Acid (C24:0) (Lignoceric Acid)	0.021

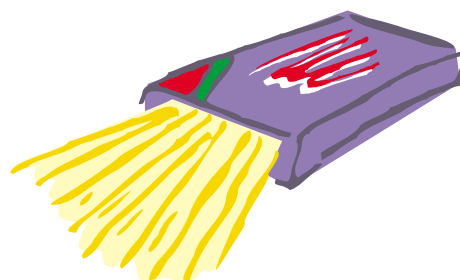
Analyte	as received (mg/kg) <sup>(a)</sup>	dry-mass basis (mg/kg) <sup>(a)</sup>
Vitamin A (as trans-retinol)	1.9	2.0
Vitamin D	0.039	0.041
Biotin	0.15	0.16
Choline	940	980
Inositol	310	320



# Farine de blé dur

RM 8436 consiste en 50 g de farine de blé dur conditioné en flacon verre , scellé sous pochette aluminium nylon.

Major Constituents	Mass Fraction (%) <sup>(a)</sup>		Mass Fraction (mg/kg)
Nitrogen	2.709	+ -	0.059
Potassium	0.318	+ -	0.014
Phosphorus	0.290	+ -	0.022
Sulfur	0.193	+ -	0.028
Magnesium	0.107	+ -	0.008
Arsenic			0.03
Fluorine			0.1
Titanium			5



	Mass Fraction, as received (%)		Mass Fraction, dry-mass basis (%)		Minor and Trace Constituents	Mass Fraction (mg/kg)		
Moisture	10.1	+ - 1.3	0	(by definition)	Chlorine	680	+ -	90
Solids	89.9	+ - 1.3	100	(by definition)	Calcium	278	+ -	26
Protein <sup>(b)</sup>	13.91	+ - 0.32	15.48	+ - 0.50	Iron	41.5	+ -	4.0
Carbohydrate	72.2	+ - 1.3	80.34	+ - 0.40	Zinc	22.2	+ -	1.7
Fat	2.53	+ - 0.24	2.82	+ - 0.25	Manganese	16.0	+ -	1.0
Ash	1.226	+ - 0.087	1.364	+ - 0.087	Sodium	16.0	+ -	6.1
Total Dietary Fiber	4.14	+ - 0.63	4.61	+ - 0.73	Aluminum	11.7	+ -	4.7
Hexadecanoic Acid (C16:0) (Palmitic Acid)	0.55	+ - 0.12	0.61	+ - 0.13	Bromine	6.6	+ -	1.1
Octadecanoic Acid (C18:0) (Stearic Acid)	0.031	+ - 0.011	0.034	+ - 0.012	Copper	4.30	+ -	0.69
(Z) - 9 - Octadecenoic Acid (18:1) (Oleic Acid)	0.40	+ - 0.12	0.45	+ - 0.13	Barium	2.11	+ -	0.47
(Z,Z) - 9,12 - Octadecadienoic Acid (C18:2)	1.32	+ - 0.47	1.47	+ - 0.52	Rubidium	2.0	+ -	0.4
(Linoleic Acid)					Selenium	1.23	+ -	0.09
(Z,Z,Z) - 9,12,15 - Octadecatrienoic Acid (C18:3)	0.068	+ - 0.026	0.076	+ - 0.029	Strontium	1.19	+ -	0.09
(Linolenic Acid)					Molybdenum	0.70	+ -	0.12
Calories <sup>(c)</sup>	(367.3	+ - 5.6) kcal/100 g	(408.6	+ - 1.1) kcal/100 g	Nickel	0.17	+ -	0.08
					Cadmium	0.11	+ -	0.05
					Lead	0.023	+ -	0.006
					Chromium	0.023	+ -	0.009
					Vanadium	0.021	+ -	0.006
					Cobalt	0.008	+ -	0.004
					Iodine	0.006	+ -	0.004
					Mercury	0.0004	+ -	0.0002

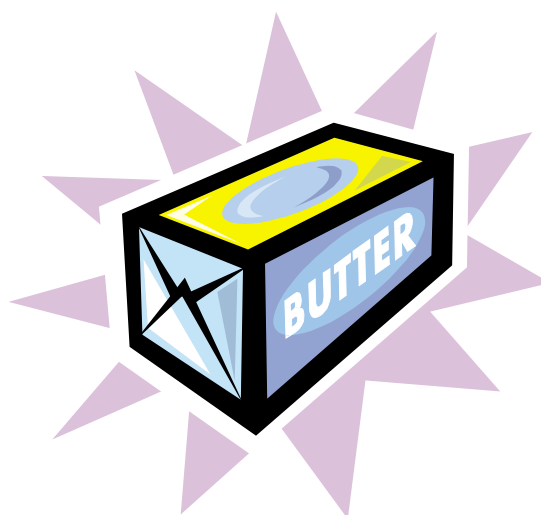
# Beurres

Le BCR-632 est proposé en set de 2 , le BCR-632A et BCR-632B: 2 ampoules de verre ambré contenant chacune approximativement 5 mL.

Compound	BCR-632A		BCR-632B	
	Pure butter fat	(g/100 g)	Adulterated butter fat	(g/100 g)
C24	0.07	± 0.04	0.08	± 0.04
Cholesterol	0.289	± 0.012	0.278	± 0.011
C26	0.33	± 0.06	0.34	± 0.06
C28	0.74	± 0.07	0.75	± 0.06
C30	1.37	± 0.08	1.46	± 0.07
C32	2.83	± 0.14	3.30	± 0.12
C34	6.09	± 0.29	6.57	± 0.25
C36	10.7	± 0.5	11.1	± 0.4
C38	12.5	± 0.4	12.7	± 0.4
C40	10.05	± 0.19	10.07	± 0.17
C42	7.07	± 0.13	7.10	± 0.10
C44	6.68	± 0.12	6.57	± 0.12
C46	7.36	± 0.17	7.12	± 0.17
C48	8.74	± 0.21	8.42	± 0.19
C50	10.74	± 0.24	10.28	± 0.19
C52	9.8	± 0.4	9.36	± 0.28
C54	4.7	± 0.5	4.5	± 0.4

BCR 519 - Gras de beurre anhydre  
2\*5ml en ampoules, pour la détermination des  
beurres frelatés avec des graisses végétales et  
animales.

Cholesterol & Triglycerides (%)	
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



# Plantes

teneurs en %

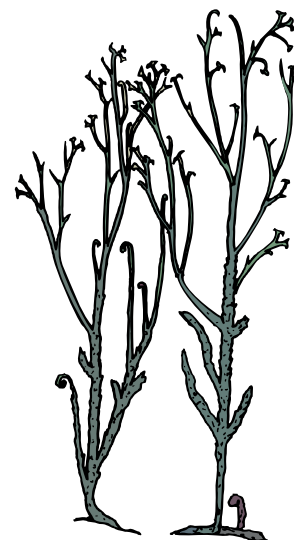
Sylab Ref	Nature	Forme	Al	Ca	Cl	K	Mg	N kiedhal	N	P	S
BCR 062	Olive leaves	25g	0.045		0.07				(1.95)		0.16
BCR 100	Bech leaves	30g	0.0435	0.53	0.149	(0.99)	(0.088)		2.629	0.155	0.269
BCR 129	Hay powder	30g		0.64		3.38	0.145	3.42	3.72	0.236	0.316
BCR 402	White clover	25g									

Suite en ppm

Sylab Ref	As	B	Ba	Br	Cd	Ce	Cr	Co	Cr	Cu	Fe	Hg	I	La
BCR 062	(0.2)	(20)			0.10					46.6		0.28		
BCR 100					(0.34)					(12.0)	(55)			
BCR 129										(10)	(11.4)		0.167	
BCR 402	0.093						(5.19)	0.178			(24.4)			

Suite

Sylab Ref	La	Mn	Mo	Ni	Pb	Rb	Sb	Se	Sr	Zn
BCR 062		57.0	(0.2)	(8)	25.0			(0.1)		16.0
BCR 100		(130)	(0.5)		(16.3)					(69)
BCR 129		(70)	(1)					(0.025)		32.1
BCR 402			6.93	(8.25)				6.70		(25.2)



Terres Rares dans la farine de blé

Sylab Ref	Nature	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Y	Forme
GBW 08503a	Wheat flour	15.1	27.0	(3.1)	14.5	2.3	(0.7)	(2.5)	(0.3)	(2.0)	(0.3)	(1.0)	(0.2)	(0.9)	(0.2)	(9.5)	20g

# Plantes aquatiques

	B CR-060	B CR-279	B CR-414	B CR-482	B CR-596	B CR-670	I AEA-336	I AEA-140-TM
	Lagarosphon major 25g	laitue marine 35g	Plancton 5g	Lichen 15g	Plante aquat. 5g	duck weed 10g	Lichen 15g	Fucus 14g
Al tout en mg/kg	4180			1103				
As		3.09	6.82	0.850			0.630	44.3
Ba							6.40	
Br							1.2.9	567
Ca								12730
Cd	2.20	0.274	0.383	0.560				0.537
Ce							0.987	1.28
Co							0.290	0.876
Cr			23.8	4.12	36.3			10.4
Cs								0.110
Cu	51.2	13.14	29.5	7.03			3.60	5.05
Dy							0.079	
Er							0.044	
Fe								4.30
Gd							0.023	1.256
Hg	0.340	0.05	0.276	0.480			0.200	0.038
Hg (methyl)								0.000626
Ho							0.016	
K								1840
La							0.487	0.660
Li								2.29
Lu							0.006	
Mg								63.0
Mn	1.759		2.99					9070
Mo								5.6.1
Na								2.65
Nd							3.20	32000
Ni			1.8.8	2.47			0.473	
P								3.79
Pb	6.3.8	1.3.48	3.97	4.0.9				16.4
Pr							0.121	
Sb								0.103
Sc							0.191	
Se		0.593	1.75					0.220
Sm							0.094	0.106
Sr								9.30
Tb							0.014	7.50
Th							0.159	0.299
Tm							0.006	
U							0.082	0.730
V			8.10					3.67
Y							0.462	
Yb							0.040	
Zn	3.13	5.1.3	1.12	1.00.6				4.7.3



# Plantes de surface

Teneurs en mg/kg

	B CR-129	B CR-281	B CR-402	I AEA-V-9	I AEA-V-10
Nature	Foin Poudre 130g	Herbe de riz 20g	Trèfle Blanc 25g	Cotton cellulose 20g	Foin Poudre 250g
As		0.057	0.093		
B		5.90			
Ba				9.00	6.00
Br					8.00
Ca	64000			240	216000
Cd		0.120			0.030
Cl				600	
Co			0.178		0.130
Cr		2.14		0.110	6.50
Cu		9.65		0.590	9.40
F (high)					1850
F (low)					0.013
Fe					
Hg		0.200		0.060	
I	1.67				
K	338000				
Mg	14500			53.0	13600
Mn	7.00	8.1.6		0.150	
Mo		0.840	6.93	0.034	0.900
N	372000				
Ni		3.00		0.090	4.00
P	2.3600				23000
Pb		3.00		0.250	1.60
Rb					7.60
S	31600				
Sb		0.047			
Sc					0.014
Se		0.028	6.70		
Sr				0.650	40.0
Zn		3.1.5			2.4.0

	G BW07605	G BW08513
	Thé 35g	Thé feuillage 30g
As	0.28 ug/g	0.180
B	15 ug/g	
Ba	5.8 ug/g	1.20
Be	0.0334 ug/g	
Bi	0.063 ug/g	
Br	3.4 ug/g	
Ca	0.43%	8.000
Cd	0.057 ug/g	0.023
Ce	1.0 ug/g	1.58
Cl		
Co	0.18 ug/g	
Cr	0.8 ug/g	
Cs	0.29 ug/g	
Cu	17.3 ug/g	8.96
Eu	0.018 ug/g	
F	320 ug/g	
Fe	2.64 ug/g	347
Hf		
Hg		
K	1.66%	8630
La		1.12
Lu		
Mg	0.17%	2.760
Mn	1240 ug/g	2170
Mo	0.038 ug/g	
N	3.32%	2.89
Na	4.4 ug/g	1.39
Nd		
Ni	4.6 ug/g	5.09
P	2840 ug/g	1480
Pb	4.4 ug/g	1.00
Rb	74 ug/g	16.2
S	0.245%	2.220
Sb	0.056 ug/g	0.036
Sc	0.085 ug/g	
Se		0.040
Sm	0.085 ug/g	
Sr	15.2 ug/g	52.4
Ta		
Tb		
Th	0.061 ug/g	0.104
Ti	24 ug/g	
Tl		
V		
Y	0.36 ug/g	
Yb	0.044 ug/g	
Zn	2.6.3 ug/g	2.2.6

Teneurs en mg/kg

	G BW 08514	G BW 08515
	Feuilles de Tabac 25g	Feuilles de Tabac 25g
B	22.0	41.6
Ca	3.00	4.30
Cl	0.770	0.98
Cu	16.4	17.4
Fe	962	966
K	2.39	3.31
Mg	0.510	0.740
Mn	9.3.9	2.36
P	0.229	0.258
Zn	28.6	36.2



# Vegetaux

	B CR-062	B CR-100	B CR-101	G BW07602	G BW07603	G BW07604	SRM1575a
	Olive Leaves 25g	Beech Leaves 30g	Spruce Needles 30g	Bushes branch & leaves 35g	Bushes branch & leaves 35g	Poplar Leaves 35g	Pine Needles 50g
Ag	450			0.027	0.049		
Al		4 350	1 730	2 140	2 000	1 040	580
As				0.950	1.25	0.370	
B				0.340	3 8.0	53.0	
Ba				19.0	18.0	26.0	6.00
Be				0.056	0.051	0.021	
Bi				0.027	0.023	0.027	
Br				2.40	3.0	7.20	
Ca		53000	42800	22200	16800	18100	2500
Cd	0.100			0.140	0.320	0.320	0.233
Ce				2.40	2.20	0.490	
Cl		1 49000	6 880				421
Co				0.390	0.410	0.420	
Cr		8 0.0		2.30	2.60	0.550	
Cs				0.270	0.270	0.053	
Cu	4 6.6			5.20	6.60	9.30	2.80
Dy							
Eu				0.037	0.039	0.009	
F				24.0	23.0	22.0	
Fe				1 020	1 070	2 74	46.0
Hf				0.140	0.140		
Hg	0.280			0.026	0.026	0.026	0.0399
K		99400		8500	9200	13800	4170
La				1.23	1.25	0.260	
Li				1.23	2.60	0.840	
Mg			6 190	2 870	4 800	6500	
Mn	57.0		9150	58.0	61.0	45.0	
Mo				1.0	0.280	0.280	
N		263000	190000	12000	1500	256000	
Na				1 1000	1 9600	200	
Nd					1.00		
Ni				1.70	1.70	1.90	
P		15500	16900	830	1000	1680	1070
Pb	2 5.0			7.10	4 7.0	1.50	
Rb				4.20	4.50	7.60	16.5
S		2 6900	1 7000	3 200	7 300	3500	
Sb				0.045	0.095	0.045	
Sc				0.310	0.320	0.069	
Se				0.184	0.120	0.140	
Si				5 800	6 000	7100	
Sm				0.190	0.190	0.038	
Sr				3 45	2 46	154	
Th				0.370	0.360	0.070	
Ti				9 5.0	9 5.0	20.4	
V				2.40	2.40		
Y					0.680	0.145	
Yb				0.063	0.063	0.018	
Zn	1 6.0		3 50	2 0.6	5 5.0	3 7.0	38.0



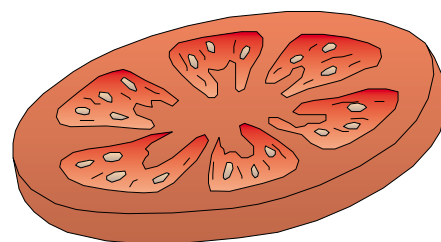
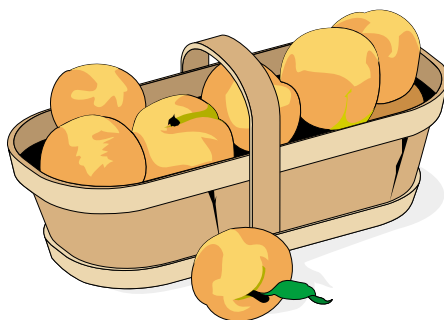
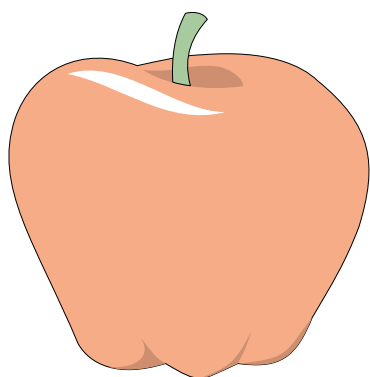
# Fruits

SRM 1515: melange des variétés de pommes "Golden Delicious" et de "Rome" pour le dosage des éléments majeurs, mineurs et trace dans les produits de la botanique et de l'agriculture.

SRM1547: pêches d'une variété "Coronet"

SRM1573: chaire de tomate déshydratée

	S RM1515	S RM1547	SRM1573a
	Apple leaves 50g	Peach Leaves 50g	Tomato Leaves 50g
Al	286	249	598
As	0.038	0.060	0.112
B	27.0	29.0	33.3
Ba	49.0	124	
Ca	15300	156000	50500
Cd	0.013		1.52
Cl	579	360	
Co			0.570
Cr			1.99
Cu	5.64	3.70	4.70
Fe			368
Hg	0.044	0.031	0.034
K	161000	2.43	27000
La	83.0		
Mg	0.470	4300	
Mn	54.0	98.0	246
Mo	0.094	0.060	
N	225000	29400	30300
Na	24.0		136
Ni	0.910	0.690	1.59
P	159000		2160
Pb		0.870	10.8
Rb	10.2		14.9
S			
Sb			0.063
Sc			
Se	0.050		0.054
Sm			0.085
Sr		53.0	
V	0.260	0.370	0.835
Zn	12.5	17.9	30.9



# Foie de Roussette pour les Eléments Traces

DOLT- 4 Elements Certifiés

Element	Mass Fraction (mg/kg)	
Arsenic (d,e,h)	9.66	± 0.62
Cadmium (d,e,i,p)	24.3	± 0.8
Copper (d,e,i,p)	31.2	± 1.1
Iron (d,i)	1833	± 75
Lead (d,e,p)	0.16	± 0.04
Mercury (c,d,p)	2.58	± 0.22
Nickel (d,e,i,p)	0.97	± 0.11
Selenium (e,h)	8.3	± 1.3
Silver (d,e,p)	0.93	± 0.07
Zinc (d,i,p)	116	± 6
CH3Hg (as Hg)(g,s,t)	1.33	± 0.12

A titre indicatif

Element	Mass Fraction, (mg/kg)
Na	6800
Mg	1500
Al	200
K	9800
Ca	680
V	0.6
Cr	1.4
Co	0.25
Sr	5.5
Mo	1
Sn	0.17

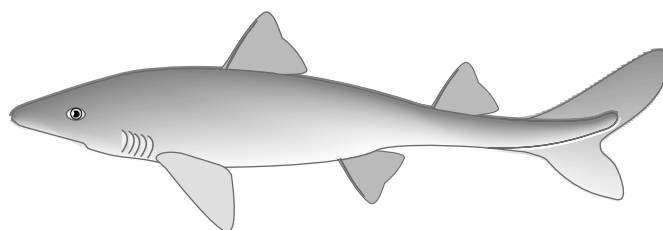
## Proteine de Poisson Certifiée pour les Eléments Trace

DORM-3 :Eléments certifiés

Elément	en mg/kg	
Arsenic (d,g,h)	6.88	± 0.30
Cadmium (d,g,i,p)	0.290	± 0.020
Copper (d,i,p)	15.5	± 0.63
Chromium (d,g,i)	1.89	± 0.17
Iron (d,i)	347	± 20
Lead (d,g,p)	0.395	± 0.050
Mercury (c,d,p)	0.382	± 0.060
Nickel (d,g,i,p)	1.28	± 0.24
Tin (d,p)	0.066	± 0.012
Zinc (d,i,p)	51.3	± 3.1
Methylmercury (as Hg) (q,s,t)	0.355	± 0.056

Pour Information

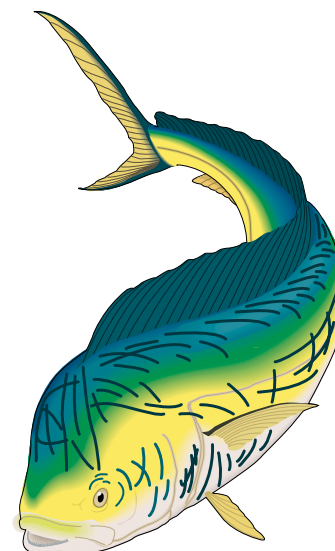
Ag	0.04	mg/kg
Se	3.3	mg/kg
Al	1700	mg/kg
Mn	4.6	mg/kg



## Morue & Thon

	B CR- 422	B CR-463
	Chair de Morue 7g	Thon 15g
As	21.1	
Cd	0.017	
Cu	1.05	
Fe	5.46	
Hg (methyl)		3.04
Hg (total)	0.559	2.85
I	4.97	
Mn	0.543	
Pb	0.080	
Se	1.63	
Zn	19.6	

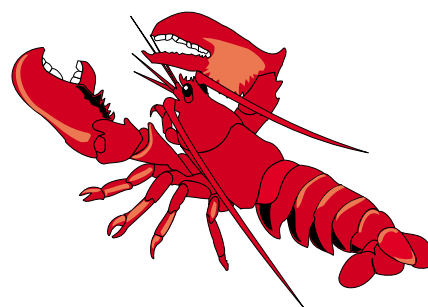
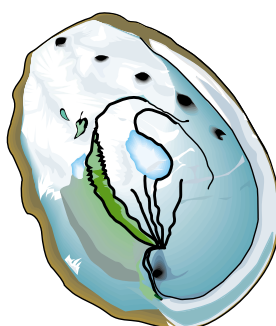
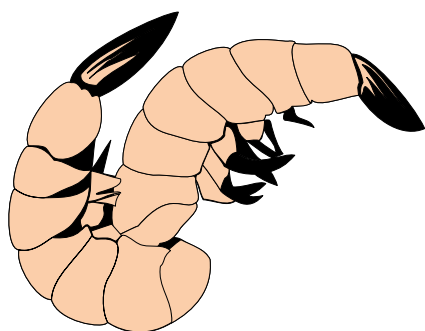
teneurs en mg/kg



# Crustacés & poissons

Teneurs en mg/kg

	B CR-668	L UTS-1		G BW08571	G BW08572	S RM1566b	S RM2976	TORT-2
	Tissus de moules 10g	Hepatopancreas de Homard 6x10g		Tissus Moules 12g	Crevettes 8g	Tissus huîtres 25g	Tissus de moules 25g	Hepatopancreas de Homard 35g
		As bottled	As dry					
Ag		0.580	3.89			0.666		
Al					1 310	197.2		
As		2.83	19.0	6.10	1.42	7.65	13.3	21.6
Ba					4.29			
Ca		203	1.306	1110	3040	83.8		
Cd		2.12	1.42	4.50	0.023	2.48	0.820	26.7
Ce	88.7							
Cl						514		
Co		0.051	0.34	0.940		0.371		0.510
Cr		0.079	0.53	0.570	0.240			0.770
Cu		15.9	107	7.70	4.66	71.6		106
Dy	8.88							
Er	4.47							
Eu	2.79							
F				221	5.31			
Fe		11.6	77.8		19.8	205.8	171	105
Gd	12.95							
Hg		0.009	0.063				610000	0.150
(methyl) Hg (total)		0.017	0.112	0.067	0.201	0.0371		0.270
I						0.0132		
K		948	6.30	4240	5970	652		
La	80.3							
Lu	0.389							
Mg		89.5	6.01	1970	1600	108.5		
Mn		1.20	8.02	10.2	1.96	18.5		12.6
Mo							278000	0.950
N			6.30		143000			
Na				582	3810	329.7		
Nd	54.5							
Ni		0.200	1.34			1.04		2.50
P					845			0.879
Pb		0.010	0.069		0.298	0.308	1.19	0.350
Pr	12.3							
Rb						3.262		
S						688.7		
Se		0.641	4.30	3.65	1.52	2.06	1.80	5.63
Sm	11.2							
Sr		2.46	6.50	12.8	40.6			45.2
Tb	1.62							
Th	10.7					0.0367		
Tm	0.480							
U	55.9							
V						0.577		1.64
Y	58.9							
Zn		12.4	82.9	138	60.8	1424	137	180



# Standards pour CHNSO

Cat No	Standard	Pack	%C	% H	% N	%O	%S	%Cl%	%Br%	% I%	% F%
B2012	1,3-Dinitrobenzene 5	1g	42.87	2.40	16.66	38.07					
B2103	1,3-Dinitrobenzene 3	5g	42.87	2.40	16.66	38.07					
B2010	1-Chloro-2,4-dinitrobenzene	1g	35.58	1.49	13.83	31.60		(17.50)			
B2044	2,5-(Bis(5-tert-butyl-2-benzo-oxazol-2-yl)thiophene (BBOT)	1g	72.52	6.09	6.51	7.43	7.44				
B2046	2,5-(Bis(5-tert-butyl-2-benzooxazol-2-yl)thiophene (BBOT)	5g	72.52	6.09	6.51	7.43	7.44				
B2021	2-Iodobenzotc Acid	1g	33.90	2.03		(12.90)				(51.17)	
B2034	3,5-Dinitrobenzoic Acid	1g	39.64	1.90	13.20	45.25					
B2118	3,5-Dnitrobenzoic Acid	5g	39.64	1.90	13.20	45.25					
B2008	4-Bromobenzoic Acid	1g	41.82	2.51		(15.92)			(39.75)		
B2143	4-Bromobenzoic Acid	5g	41.82	2.51		(15.92)			(39.75)		
B2009	4Chlorobenzoic Acid	1g	53.70	3.22		20.44		(22.64)			
B2117	4-Chlorobenzoic Acid	5g	53.70	3.22		20.44		(22.64)			
B2013	4-Fluorobenzoic Acid	1g	60.01	3.5g		(22.84)					(13.56)
B2015	4-Nitroaniline &	1g	52.17	4.38	20.29	23.16					
B2020	8-Hydroxyquinoline	1g	74.47	4.86	9.65	11.02					
B2000	Acetanilide	1g	71.09	6.71	10.36	11.84					
B2114	Acetanilde	5g	71.09	6.71	10.36	11.84					
B2001	Alanine	1g	40.44	7.92	15.92	35.92					
B2003	Anthracene	1g	94.34	5.66							
B2042	Aspartic Acid	1g	36.09	5.30	10.52	48.08					
B2002	Atropine §	1g	70.56	8.01	4.84	16.5g					
B2006	Atropine 9	10g	70.56	8.01	4.84	16.5g					
B2004	Benzoic Acid	1g	68.85	4.95		26.20					
B2047	Benzoic Acid	5g	68.85	4.95		26.20					
B2007	Benzylthiuronium Chloride &	1g	47.40	5.47	13.82		15.82	(17.49)			
B2108	Benzylthiuronium Chloride &	5g	47.40	5.47	13.82		15.82	(17.49)			
B2030	Caffeine	1g	49.48	5.19	28.85	16.48					
B2104	Caffeine	5g	49.48	5.19	28.85	16.48					
B2250	Calcium Carbonate	50g	12.00								
B2300	Coal Standard	50g					0.30				
B2301	Coal Standard	50g					0.50				
B2302	Coal Standard	50g					0.70				
B2303	Coal Standard	50g					0.85				
B2304	Coal Standard	50g					1.00				
B2305	Coal Standard	50g					1.50				
B2306	Coal Standard	50g					2.00				
B2307	Coal Standard	50g					2.50				
B2308	Coal Standard	50g					3.00				
B2309	Coal Standard	50g					3.50				
B2310	Coal Standard	50g					4.00				
B2311	Coal Standard	50g					5.00				
B2312	Coal Standard	50g					6.00				
B2315	Coke Standard	50g					0.70				
B2316	Coke Standard	50g					0.90				
B2317	Coke Standard	50g					0.50				
B2005	Cyclohexanone,2,4dinitrophenylhydrazone (CYC)	1g	51.79	5.07	20.14	23.00					
B2035	Cystine	1g	29.99	5.03	11.66	26.63	26.69				
B2105	Cystine	5g	29.99	5.03	11.66	26.63	26.69				
B2011	Dibenzylsulphide	1g	68.25	5.73			26.02				
B2039	Diphenyl 8	1g	93.46	6.54							
B2033	Ethylendiaminetetra-acetic Acid (EDTA)	1g	41.09	5.52	9.59	43.79					
B2120	Ethylendiaminetetra-acetic Acid (EDTA)	25g	41.09	5.52	9.59	43.79					



# Standards pour CHNSO

Cat No	Standard	Pack	% C	% H	% N	% O	% S	% Cl%	% F%	% P
B2336	Extreme Pressure Oil	118ml					2.00			
B2337	Extreme Pressure Oil	118ml					3.00			
B2338	Extreme Pressure Oil	118ml					4.00			
B2019	Hexachlorobenzene &	1g	23.30					(74.70)		
B2330	High Sulphur Residual Oil	118ml					30.00			
B2331	High Sulphur Residual Oil	118ml					20.00			
B2332	High Sulphur Residual Oil	118ml					10.00			
B2333	High Sulphur Residual Oil	118ml					6.00			
B2334	High Sulphur Residual Oil	118ml					5.00			
B2040	Imidazol &	1g	52.93	5.92	41.15					
B2041	Isatin	1g	65.30	3.43	9.52	21.75				
B2145	Lubricant Standard	2g	72.36	11.44	0.90		3.06			
B2045	Methlonine	1g	40.25	7.43	9.39	21.44	21.49			
B2014	Naphthalene &	1g	93.71	6.29						
B2132	Nicotinamide	1g	59.01	4.95	22.94	13.10				
B2016	Phenacetin	1g	67.01	7.31	7.82	17.86				
B2113	Phenanthrene Enriched	1g			0.50		0.60			
B2360	Residual Oil Standard	118ml					0.10			
B2361	Residual Oil Standard	118ml					0.20			
B2362	Residual Oil Standard	118ml					0.30			
B2363	Residual Oil Standard	118ml					0.40			
B2364	Residual Oil Standard	118ml					0.50			
B2365	Residual Oil Standard	118ml					0.60			
B2366	Residual Oil Standard	118ml					0.70			
B2367	Residual Oil Standard	118ml					0.80			
B2368	Residual Oil Standard	118ml					0.90			
B2369	Residual Oil Standard	118ml					1.00			
B2370	Residual Oil Standard	118ml					1.50			
B2371	Residual Oil Standard	118ml					2.00			
B2372	Residual Oil Standard	118ml					2.50			
B2373	Residual Oil Standard	118ml					3.00			
B2374	Residual Oil Standard	118ml					3.50			
B2375	Residual Oil Standard	118ml					4.00			
B2376	Residual Oil Standard	118ml					4.50			
B2031	Stearic Acid	1g	76.00	12.75		11.25				
B2102	Stearic Acid	5g	76.00	12.75		11.25				
B2032	Sucrose	1g	42.10	6.48		51.41				
B2121	Sucrose	25g	42.10	6.48		51.41				
B2037	Sulphamethazme	1g	51.78	5.07	20.12	11.49	11.52			
B2106	Sulphamethazine	5g	51.78	5.07	20.12	11.49	11.52			
B2017	Sulphamic Acid &	1g		3.11	14.43	49.44	33.02			
B2036	Sulphanilamide	1g	41.85	4.68	16.26	18.58	18.62			
B2043	Sulphanilic Acid	1g	41.61	4.07	8.09	27.71	18.51			
B2147	Sulphanilic Acid	5g	41.61	4.07	8.09	27.71	18.51			
B2018	Tnfluoroacetanilide	1g	50.80	3.20	7.41	(8.46)			(30.13)	
B2022	Triphenylphosphine	1g	82.42	5.76						(11.81)
B2038	Urea	1g	20.0	6.71	46.64	26.64				

Cat No	Standard	Pack	% C	% H	% N	% S
B2273	Alfalfa	30g	45.77	5.42	3.37	0.20
B2276	Oatmeal	30g	47.76	5.72	2.09	0.16
B2141	Orchard Leaves	20g	44.52	5.7-6.5	2-2.8	
B2277	Barley	30g	46.68	5.57	1.50	0.14
B2272	Corn Gluten	30g	50.29	6.33	10.95	0.96
B2270	Corn Meal	30g	45.35	5.44	1.91	0.15
B2154	Protein (Casein) Standard	30g	47.02		13.63	0.86
B2278	Rice Flour	30g	44.70	5.88	1.36	0.12
B2275	Rye Flour	30g	44.25	5.78	1.86	0.17
B2150	Sediment Standard (High Organic Content)	30g	6.72		0.50	0.92
B2152	Soil Standard (Low Organic Content)	30g	1.65		0.14	0.031
B2158	Sorghum Flour Standard	30g	41.58		1.46	0.105
B2271	Soy Bean Meal	30g	45.18	5.69	7.98	0.37
B2156	Wheat Flour Standard	30g	39.53		1.47	0.098
B2160	Chitin	30g				
B2162	Algae (Splrulina)	30g				
B2164	Algae (Bladderwrack)	30g				
B2166	Birch Leaf	30g				
B2168	Coconut Shell Powder	30g				
B2170	Olive Stone Powder	30g				

# Standards pour IRMS

Cat No	Material	Pack	% Carbon*	U (%)	% Nitrogen*	U (%)	% Sulphur*	U (%)
B2150	Sediment (High Organic)	30g	6.5	0.2	0.50	0.01	1.0	0.01
B2152	Soil (Low Organic)	30g	1.5	0.02	0.2	0.005	0.05	0.006
B2154	Protein (Casein)	30g	47.0	0.35	13.5	0.12	0.9	0.11
B2156	Wheat flour	30g	39.5	0.26	1.5	0.1	0.1	0.02
B2158	Sorghum flour	30g	41.5	0.13	1.5	0.03	0.1	0.02

Sorghum, Wheat and High Organic sediment carbon and nitrogen values were determined versus NIST acetanilide 141d Protein and Low Organic content soil carbon and nitrogen values were determined versus NIST cystine 143d Sorghum, Wheat, Low Organic soil and Protein sulphur values were determined versus NIST rice flour 1568a High Organic sediment sulphur values were determined versus NIST cystine 143d

Certifiés pour les données isotopiques

Cat No	Material	Pack	$^{13}\text{C}_{\text{V.PDB}}$	RSD	U	$^{15}\text{N}_{\text{AIR}}$	RSD	U	$^{34}\text{S}_{\text{V.CDT}}$	RSD	U
			‰*	‰	‰	‰*	‰	‰*	‰	‰	
B2151	Sediment (High Organic)	5g	-26	0.04	0.13	+5	0.09	0.19	+4	0.24	0.8
B2153	Soil (Low Organic)	5g	-28	0.02	0.11	+7	0.07	0.15	+5	0.44	1.4
B2155	Protein (Casein)	5g	-27	0.04	0.13	+6	0.03	0.08	+6	0.20	0.8
B2157	Wheat flour (C3)	5g	-27	0.04	0.13	+3	0.08	0.17	-1	0.32	0.8
B2159	Sorghum flour (C4)	5g	-14	0.08	0.19	+2	0.07	0.15	+10	0.41	1.0

# EAUX pour IRMS

Cat No	Material	Pack	$^2\text{H}_{\text{V.SMOW}}$ ‰*	s ‰*	$^{18}\text{O}_{\text{V.SMOW}}$ ‰*	s ‰*
B2190	High Enriched Water	25ml	+1702	5.0	+267	0.9
B2191	Medium Enriched Water	25ml	+843	2.6	+109	0.3
B2192	Zero Natural Water	25ml	+5	0.8	+1	0.2
B2193	Medium Natural Water	25ml	-62	2.1	-10	0.2
B2194	Low Natural Water	25ml	-157	1.3	-20	0.1
B2195	Set of five materials above	5 x 25ml				

# Boissons pour IRMS

Parameter	Unit	BCR-656 (96% ethanol)	BCR-657 (Sugar)	BCR-658 (Synthetic wine)	BCR-659 (Synthetic wine)	BCR-660 (Ethanol in water)
$^{13}\text{C}_{\text{VPDB}}$ by IRMS	‰	-26.91 ± 0.07	-10.76 ± 0.04			-26.72 ± 0.09
$^{18}\text{O}_{\text{VSMOW}}$ of water from wine by IRMS	‰			-7.19 ± 0.04	-7.18 ± 0.02	
(D/H)w of water (IRMS)	ppm					148.68 ± 0.14
Alcoholic grade tD	w/w %	94.61 ± 0.05				11.96 ± 0.06 1)

## Conten

<b>Acides gras et cholestérol dans les aliments diététiques</b>	<b>1</b>
<b>Viande homogénéisée</b>	<b>1</b>
<b>Autres viandes et os</b>	<b>1</b>
<b>Aliments Diététique</b>	<b>2</b>
<b>Lait écrémé en poudre</b>	<b>3</b>
<b>Laits et produits laitiers</b>	<b>3</b>
<b>Cholestérol et Vitamines solubles dans l'huile de noix de coco</b>	<b>4</b>
<b>Tissus d'huitre</b>	<b>5</b>
<b>farine de blé</b>	<b>6</b>
<b>Farine de riz</b>	<b>7</b>
<b>Farine de Riz pour les éléments majeurs</b>	<b>7</b>
<b>Epinards hachés</b>	<b>8</b>
<b>Epinards pour éléments traces</b>	<b>8</b>
<b>Repas pour enfants</b>	<b>9</b>
<b>Aliments pour bébés</b>	<b>10</b>
<b>Chocolat en morceaux</b>	<b>11</b>
<b>Beurre de cacahuètes</b>	<b>12</b>
<b>Extrait de Carotte dans l'huile</b>	<b>13</b>
<b>Poudre d'oeufs entiers</b>	<b>14</b>
<b>Gluten de blé</b>	<b>15</b>
<b>Poudre de Lait Entier</b>	<b>16</b>
<b>Farine de blé dur</b>	<b>17</b>
<b>Beurres</b>	<b>18</b>
<b>Plantes</b>	<b>19</b>
<b>Plantes aquatiques</b>	<b>19</b>
<b>Plantes de surface</b>	<b>20</b>
<b>Vegetaux</b>	<b>21</b>
<b>Fruits</b>	<b>22</b>
<b>Foie de Roussette pour les Eléments Traces</b>	<b>23</b>
<b>Proteine de Poisson Certifiée pour les Eléments Trace</b>	<b>23</b>
<b>Morue &amp; Thon</b>	<b>23</b>
<b>Crustacés &amp; poissons</b>	<b>24</b>
<b>Standards pour CHNSO</b>	<b>25</b>
<b>Standards pour CHNSO</b>	<b>26</b>
<b>Standards pour IRMS</b>	<b>27</b>
<b>EAUX pour IRMS</b>	<b>27</b>
<b>Boissons pour IRMS</b>	<b>27</b>