

# Nutritional Labeling of Food

Test methods, Detection Limits, VDR and IDR:



Essays:	Test methods:	Detection Limit :	VDR: <sup>(a)</sup>
Energy Value	Theoretical calculation	1 kcal/100g	2000 kcal - 8400 kJ
Carbohydrates	Theoretical calculation	0.1 g/100g	300 g
Proteins	Kjeldahl	0.1 g/100g	75 g
Total Fat:	Extraction Butt	0.1 g/100g	55 g
Saturated fats	CG-FID	0.1 g/100g	22 g
Trans fat	CG-FID	0.1 g/100g	-
Mono-unsaturated fats	CG-FID	0.1 g/100g	-
Polyunsaturated Fats	CG-FID	0.1 g/100g	-
Cholesterol	CG-FID	10 mg/100g	-
Dietary fiber	AOAC 985.29	0.1 g/100g	25 g
Moisture (Food)	AOAC 930.15	0,1 g/100g	-
Moisture (Flours)	AOAC 925.10	0,1 g/100g	-
Moisture (Peanut Paste)	AOAC 920.116	0,1 g/100g	-
Ash	GAFTA 11	0,1 g/100g	-
Sodium	ICP-MS	50 mg/kg	2400 mg
Essays:	Test methods:	Detection Limit :	IDR: <sup>(b)</sup>
Vitamin A	HPLC-FLD	20 µg/100g	45 mg
Vitamin C	HPLC-UV	1 mg/100g	45 mg
Vitamin D (D3)	LC-MS/MS	1 µg/100g	5 µg
Vitamin E	HPLC-FLD	0.01 mg/100g	10 mg
Calcium – Ca	ICP-MS	50	1000 mg
Iron – Fe	ICP-MS	1.00	14 mg
Magnesium – Mg	ICP-MS	50	260 mg
Zinc – Zn	ICP-MS	1.00	7 mg
Phosphorus – P	ICP-MS	50	700 mg
Copper – Cu	ICP-MS	1.00	900 µg
Selenium – Se	ICP-MS	0.50	34 µg
Molybdenum – Mo	ICP-MS	0.05	45 µg

<b>Chromium – Cr</b>	<b>ICP-MS</b>	0,20	35 µg
<b>Manganese – Mn</b>	<b>ICP-MS</b>	0.05	2.3 µg

<sup>(a)</sup> VDR: Daily Nutrient Reference Values, according to Capítulo V-CAA-ANMAT. - Obligatory Declaration

<sup>(b)</sup> IDR: Recommended Daily Intake Values, according to Capítulo V-CAA-ANMAT. - Voluntary Declaration