Nutritional Labeling of Food

Test methods, Detection Limits, VDR and IDR:

Essays:	*Test methods:*	*Detection Limit :*	*VDR: [a]*
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
Sodium	**ICP-MS**	50 mg/kg	2400 mg
Essays:	***Test methods:***	***Detection Limit :***	***IDR: [b]***
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
Chromium – Cr	**ICP-MS**	0,20	35 µg
Manganese – Mn	**ICP-MS**	0.05	2.3 µg

[a] VDR: Daily Nutrient Reference Values, according to Capítulo V-CAA-ANMAT. - Obligatory Declaration

[b] IDR: Recommended Daily Intake Values, according to Capítulo V-CAA-ANMAT. - Voluntary Declaration