

CODEx ALIMENTARIUS COMMISSION



Food and Agriculture
Organization of the
United Nations



World Health
Organization

Viale delle Terme di Caracalla, 00153 Rome, Italy - Tel: (+39) 06 57051 - E-mail: codex@fao.org - www.codexalimentarius.org

Agenda Item 3

MAS44/CRD10

April 2025

ORIGINAL LANGUAGE ONLY

JOINT FAO/WHO FOOD STANDARDS PROGRAMME
CODEx COMMITTEE ON METHODS OF ANALYSIS AND SAMPLING

44th Session

Virtual

5 – 8 May and 14 May 2025

**PROPOSAL FOR NUMERIC PERFORMANCE CRITERIA FOR FOLLOW-UP FORMULA (CXS 156-1987)
AND INFANT FORMULA (CXS 72-1981, SECTION A)**

(Prepared by Brazil)

1. Brazil reviewed methods of analysis for provisions for follow-up formula and infant formula listed in Part A.2 of CX/MAS 25/44/3 proposed by the 44th session of the Codex Committee on Nutrition and Foods for Special Dietary Uses (CCNFSDU44).
2. In this context, Brazil proposes the establishment of numeric performance criteria for the provisions outlined in the *Standards for follow up formula for older infants and product for young children* (CXS 156-1987) and *infant formula and formulas for special medical purposes intended for infants* (CXS 72-1981), with the understanding that these criteria should be adopted to the extent possible, in accordance with the Codex Alimentarius Commission Procedural Manual.
3. This proposal is detailed in Appendices I and II of this document.
4. CCMAS44 is invited to review the numeric performance criteria presented in Appendices I and II, with a view to recommending their endorsement.

Appendix I**CXS 72-1987 - STANDARD FOR INFANT FORMULA AND FORMULAS FOR SPECIAL MEDICAL PURPOSES INTENDED FOR INFANTS**

	ML	LOD	LOQ	Precision (RSDR) (%) No more than	Min. Appl. Range	Recovery (%)
Folic acid (µg/100 kcal)	From 10 to 50	1	2	44	5.6-78.76	80-110

The highest value in the Min. Appl. Range is calculated by using the highest value of the ML, while the rest i.e. the lowest value in the Min. Appl. Range, LOD, LOQ, Precision. and Recovery are calculated based on the lowest value of the ML.

Appendix II**CXS 156-1987 - STANDARD FOR FOLLOW-UP FORMULA FOR OLDER INFANTS AND PRODUCT FOR YOUNG CHILDREN**

	ML	LOD	LOQ	Precision (RSDR) (%) No more than	Min. Appl. Range	Recovery (%)
Protein (g/100 kcal)	From 1.8 to 3	0.184	0.368	7.88	1.62-3.33	97-103
Total fat (g/100 kcal)	From 4.4 to 6	0.44	0.88	6.91	3.94-6.59	97-103
Vitamin E (mg/100 kcal)	From 0.5 to 5	0.05	0.10	27.12	0.3-6.44	80-110
Vitamin C (mg/100 kcal)	From 10 to 70	1.00	2.00	17.28	7.41-83.53	90-107
Iron (mg/100 kcal)	From 1 to 2	0.10	0.20	24.43	0.63-2.66	80-110
Calcium (mg/100 kcal)	From 50 to 180	5.00	10.00	13.56	39.83-210.19	90-107
Phosphorus (mg/100 kcal)	From 25 to 100	2.50	5.00	15.05	19.36-118.32	90-107
Magnesium (mg/100 kcal)	From 5 to 15	0.50	1.00	19.17	3.56-18.66	80-110
Sodium (mg/100 kcal)	From 20 to 60	2.00	4.00	15.56	15.33-71.87	90-107
Chloride (mg/100 kcal)	From 50 to 160	5.00	10.00	13.56	39.83-187.32	90-107 Potassium
Potassium (mg/100 kcal)	From 60 to 180	6.00	12.00	13.19	48.13-210.19	90-107
Zinc (mg/100 kcal)	From 0.5 to 1.5	0.05	0.10	27.12	0.3-2.02	80-110
Choline (mg/100 kcal)	50	5.00	10.00	13.56	39.83-60.17	95-105
Myo-inositol (mg/100 kcal)	40	4.00	8.00	14.02	31.59-48.41	95-105
Vitamin A (µg/100 kcal)	From 75 to 180	7.50	15.00	36.08	34.41-265.39	80-110
Vitamin D (µg/100 kcal)	From 1 to 3	0.10	0.20	44.00	0.56-4.32	60-115
Thiamine (µg/100 kcal)	From 60 to 300	6.00	12.00	37.31	26.42-431.78	80-110
Riboflavin (µg/100 kcal)	From 80 to 500	8.00	16.00	35.73	37.12-703.38	80-110

	ML	LOD	LOQ	Precision (RSDR) (%) No more than	Min. Appl. Range	Recovery (%)
Niacin (µg/100 kcal)	From 300 to 1500	30.00	60.00	29.28	168.22-2017.16	80-110
Vitamin B6 (µg/100 kcal)	From 35 to 175	3.50	7.00	40.46	13.76-258.37	80-110
Vitamin B12 (µg/100 kcal)	From 0.1 to 1.5	0.01	0.02	44.00	0.06-2.16	40-120
Pantothenic acid (µg/100 kcal)	From 400 to 2000	40.00	80.00	28.04	231.74-2660.34	80-110
Folic acid (µg/100 kcal)	From 10 to 50	1.00	2.00	44.00	5.6-78.76	80-110
Biotin (µg/100 kcal)	From 1.5 to 10	0.15	0.30	44.00	0.84-14.4	60-115
Manganese (µg/100 kcal)	From 1 to 100	0.10	0.20	44.00	0.56-151.83	60-115
Iodine (µg/100 kcal)	From 10 to 60	1.00	2.00	44.00	5.6-93.58	80-110
Selenium (µg/100 kcal)	From 2 to 9	0.20	0.40	44.00	1.12-12.96	60-115
Copper (µg/100 kcal)	From 35 to 120	3.50	7.00	40.46	13.76-180.51	80-110

The highest value in the Min. Appl. Range is calculated by using the highest value of the ML, while the rest i.e. the lowest value in the Min. Appl. Range, LOD, LOQ, Precision. and Recovery are calculated based on the lowest value of the ML.