

AQUANAL

LABORATOIRE AQUITAINE ANALYSES

SPECIALIST IN NUTRITION ANALYSIS FOR FOOD LABELLING



INFANT FORMULAS & NUTRITIONAL PRODUCTS



AQUANAL

We offer high quality analytical test methods, adapted specifically for testing infant formulas and nutritional products.

BECAUSE INFANTS, YOUNG CHILDREN AND UNDERNOURISHED PATIENTS ARE FRAGILE AND HAVE SPECIFIC NEEDS, INFANT FORMULAS AND NUTRITIONALS ARE SUBJECTED TO SPECIFIC AND STRINGENT REGULATIONS.



The analytical test methods used to determine the micronutrient and trace element content of infant formulas and nutritional products must ensure that their nutrient content complies with the declaration on the label. To help manufacturers of infant formula and food testing laboratories to check compliance with the various regulations (European and international), analytical test methods have been developed specifically within the framework of the SPIFAN project (Stakeholder Panel on Infant Formula and Adult Nutritionals). Managed by AOAC INTERNATIONAL and in collaboration with ISO and IDF, the work of SPIFAN culminated in November 2015 in the publication of several ISO standards, and others are in the approval stages. They will all be proposed to the Codex Alimentarius 1) to be used as reference methods throughout the world.

When SPIFAN put out the call for laboratories to participate in the multilaboratory testing needed to prepare these standards, AQUANAL immediately became involved, as it always has done with regard to testing standardisation methods.

AQUANAL is the only French laboratory taking part in this international multilaboratory testing. It has the level of skill and expertise to be able to offer its customers methods specifically adapted to testing infant formula and nutritionals for adults, and which are recognised globally.

1) The Codex Alimentarius, or "Food Code" was established by the FAO and the World Health Organisation (WHO) in 1963 to develop harmonised international food standards, which protect consumer health and promote fair practices in food trade.

Analytical test methods aimed at manufacturers exporting infant formula to China.



In addition to analysing vitamins, minerals, trace elements and other nutrients such as inositol, choline, carnitine, taurine, amino acids... AQUANAL also offers testing for the presence of certain contaminants such as lead, aflatoxin M1, etc., as specified in standard GB 10765.

Short lead times improve business relations.

The laboratory is equipped with high performance analysis facilities and has invested in additional resources to guarantee test results of the highest quality, to satisfy customer requirements.

In addition, the laboratory's logistic capacity ensures that analyses of all parameters can be carried out in short lead times.



Non-exhaustive list of analyses available for testing infant formula and nutritional products

VITAMINS - NUTRIENTS

Vitamin A / Retinol	NF EN 12823-1 / HPLC
Vitamin E / Tocopherol	NF EN 12822 / HPLC
β-carotene (pro-Vitamin A)	NF EN 12823-2 / HPLC
Vitamin D3 / Cholecalciferol	NF EN 12821 / HPLC
Vitamin B1 / Thiamin	NF EN 14122 / HPLC
Vitamin B2 / Riboflavin	NF EN 14152 / HPLC
Vitamin PP ou B3 / Niacin	NF EN 15652 / HPLC
Vitamin B5 / Pantothenic acid	ISO 20639 / LC-MS-MS
Vitamin B6 / Pyridoxin	NF EN 14164 / HPLC
Vitamin B8 / Biotin	NF EN 15607 / HPLC
Total vitamin B9 / Folic acid	NF EN 14131 / Microbiology
Vitamin B12 / Cobalamin	In-house method / HPLC
Vitamin C / Ascorbic acid	NF V03-135 / HPLC
Vitamin K1 / Phylloquinone	NF EN 14148 / HPLC
Total choline	In-house method / Ion chromatography
Total carnitine	Méthode interne / LC-MS-MS
Inositol (free myo-inositol)	ISO 20637 / HPLC
Taurine	In-house method / HPLC
Full amino acid profile (incl. Tryptophan)	ISO 13903 / ISO 13904 / HPLC
Fatty acid profile (incl. saturated, monounsaturated, polyunsaturated, Omega 3, Omega 6, EPA, DHA, ARA and trans fatty acids)	ISO 16958 / CPG

MINERALS - TRACE ELEMENTS

Calcium	ICP-AES
Magnesium	ICP-AES
Phosphorus	ICP-AES
Potassium	ICP-AES
Sodium	ICP-AES
Copper	ICP-AES / ICP-MS
Iron	ICP-AES
Manganese	ICP-AES / ICP-MS
Zinc	ICP-AES
Chlorides	According to French ministerial order of 24/08/1983
Selenium	ISO 20649 / ICP-MS
Chromium	ISO 20649 / ICP-MS
Molybdenum	ISO 20649 / ICP-MS
Iodine	NF EN 15111 / ICP-MS
Fluorides	Ionometry

HEAVY METALS - MYCOTOXINS

Lead	NF EN 13805 - NF EN 15763 / ICP-MS
Aflatoxin M1	ISO 14501 / LC-MS-MS



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