



# Premixes for Infant Milk Formulations

The production of Infant Milk Formulations (IMF) requires the highest standards on hygiene, food safety and nutritional value. Producers of premixes and other ingredients for these types of products must be able to meet and guarantee these criteria under all circumstances because the product is meant for a very sensitive consumer group; babies.

At Vitablend, the development of vitamins and minerals premixes are according to the international regulations (Codex Alimentarius) on nutrition of infants. All premixes are formulated and packed under clean room conditions using only certified suppliers. An integrated barcode system insures that the composition of every single batch is according to the specification approved by the customer and it also provides the guarantee of full tracking and tracing. Conformity tests and the measurement of actual levels of ingredients are carried out in Vitablend's own laboratory. Your partners at Vitablend have broad experience in the design and production of IMF and are therefore able to meet the demands on these key ingredients to customers. High quality, flexibility and dedication, that is how Vitablend's approach can be best described. Of course Vitablend is certified Kosher Circle K, Halal, ISO 9001 and HACCP.

At today's producers of IMF, many different premixes are used. Vitamins, minerals, ultra trace premixes and other bioactive components are used separately in order to provide optimal flexibility in production. Often numerous different recipes of IMF are produced, in most cases all requiring a different level of ingredients. Vitablend's response to this is by offering its tailor made premixes also in the smallest quantities and packaging sizes.

### Vitamin Premixes

Vitamins can be sensitive to heat, oxygen and UV. As the whole range of vitamins are usually present in IMF, it is important to understand their behaviour. Vitablend has strong experience in designing tailor made formulations for different production processes.

### Mineral Premixes

Minerals are a rather complex group of elements. They have to be added in high amounts and hence can cause potential taste, texture and colour problems. Vitablend has the experience to select the best combinations of raw materials for different processes.

### Ultra Trace Mineral Premixes

Minerals that have to be added to IMF in only the smallest amounts are known as ultra trace minerals. However, in many cases they are toxic in higher concentrations. Using a diluted premix, the risk of over dosing is minimised and safety of use is guaranteed to operators in the process. Examples of ultra trace minerals are selenium, chromium and molybdenum.

### Amino Acid Premixes

For hypo-allergenic formulations various combinations of amino acids are available to replace (part) of the proteins present in the milk components of the IMF. Using only the highest quality ingredients, Vitablend has many options in differentiating IMF for infants and toddlers.

### Nucleotide Premixes

Nucleotides are present in human milk. We deliver the complete range (IMP, UMP, AMP, GMP) to replicate natural levels in IMF.

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