

Micro Nutrient Mineral Blends from Celtic Chemicals



Working With Celtic

Micro nutrient mineral blends (triturations) are an ideal way of incorporating micro elements into your product. You decide how much active ingredient is in every Kilogram of blend, this ensures easy & accurate dosing, homogeneous distribution of the element and reduced toxicity; especially with Selenium blends.

Upon receipt of an initial enquiry, the formulation required for the blend is calculated i.e. the quantities of actives and excipients (carriers) required to make the micronutrient blend. When the commercial conditions have been agreed with the customer, a pilot scale trial to manufacture 25-50kg product is completed. Either a sample or the full trial batch may be sent to the customer for evaluation.

Documentation will accompany the trial batch as agreed with the customer such as statements for Allergen, GMO, Kosher and Halal status.

Once the sample has been approved by the customer and an order placed, the micronutrient blend may be manufactured within a matter of days, subject to order quantity.

The Raw Materials

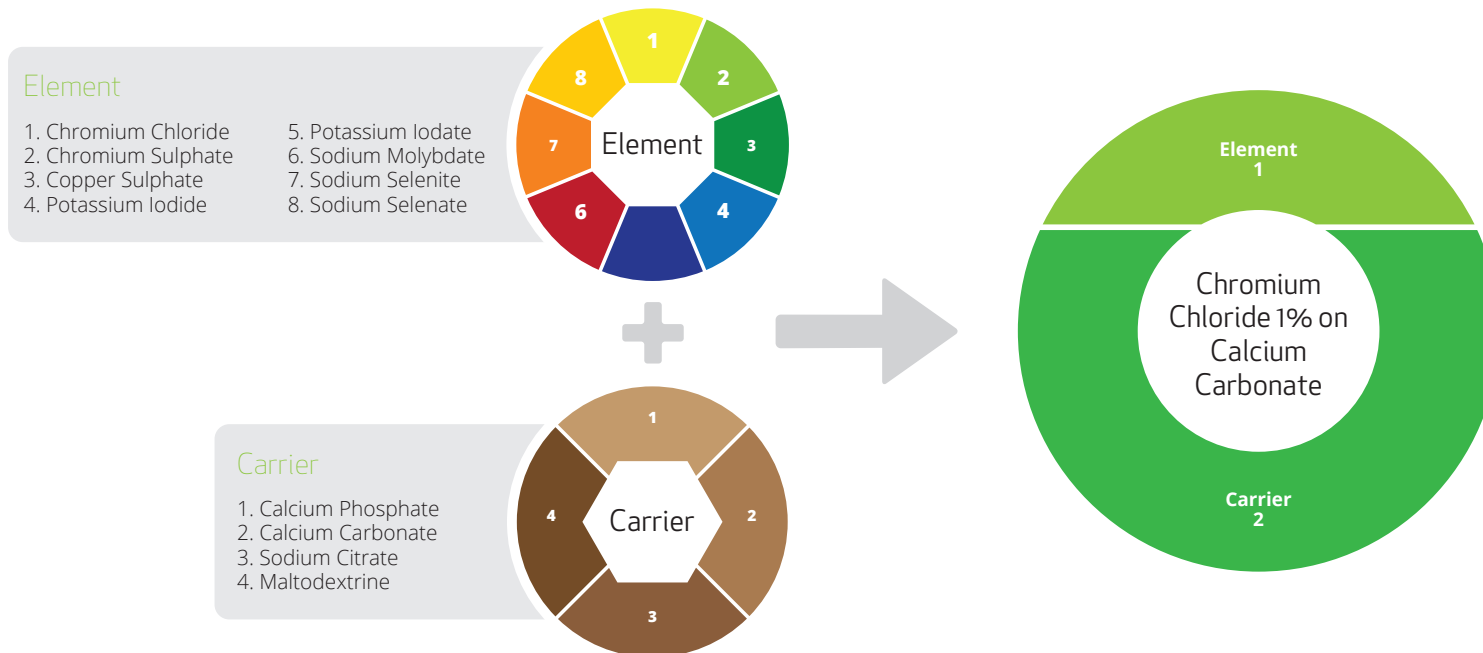
Celtic's **trace elements** are incorporated with a range of excipients such as Calcium Carbonate (E170), Calcium Phosphate (E341) or Maltodextrin; all fulfilling the purity criteria for food additives: Directive 2008/84/EU.

The Specification

The following parameters are specified and reported on Celtic Chemicals' certificate of analysis -

- Assay (blend)
- Assay (active)
- Heavy Metals (Regulation EC No 1881/2006):-

Pb (Spec: <3ppm)
Cd (Spec: <1ppm)
As (Spec: <1ppm)
Hg (Spec: <0.1ppm)



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The Process

Raw materials are dispensed and manufactured in accordance with procedures prescribed in Celtic Chemicals' integrated Quality Management System. The iQMS incorporates the principles of HACCP, Risk Management and Good Manufacturing Practice.

Blends are tested in-house for compliance to specification via ICP/OES and AAS. On approval, the blend is packed to customer requirements in food grade packaging. A Certificate of Analysis accompanies each delivery.

The Packaging

Blends are routinely packed in 5, 10 and 25kg pack sizes. Packaging is Food Grade HDPE drum, lid and plastic inner.







The Delivery

Celtic Chemicals offer next day service for UK deliveries. EU deliveries are generally made within 3-4 days. Delivery times for international deliveries will be provided upon request.



Nutritional Reference Values for adult males (Reg EU No 1169/2011)

Selenium - 55µg
Copper - 1mg
Chromium - 40µg
Molybdenum - 50µg
Iodine - 150µg

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Di Sodium Tetraborate (B 1%) on Calcium Carbonate



Product Description

White, crystalline powder, almost odourless. It contains Di Sodium Tetraborate finely embedded in a matrix of Calcium Carbonate.

Composition

Calcium Carbonate, Di Sodium Tetraborate.

Monographs

The active ingredient complies with the analytical requirements of the Ph Eur monograph.

Active Ingredient

Di Sodium Tetraborate Formula: $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$
Molecular Weight: 381.37

Packaging & Storage

25kg HDPE Drums with inner liner.

Typical Analysis

Assay:

Boron:	1.0%
Calcium:	27.0%

Particle Size: min. 95% < 250µm

Heavy Metals

Lead (Pb):	Max. 3 ppm
Arsenic (As):	Max. 1 ppm
Cadmium (Cd):	Max. 1 ppm
Mercury (Hg):	Max. 0.1ppm

Quality

Product is made under full HACCP program compliant with EU Food Hygiene regulations.

BSE / TSE

We hereby confirm that this product is not manufactured from, or with, any type of animal product nor any derivative of an animal product. In addition Celtic Chemicals premises do not handle any materials of animal origin.

Shelf Life

When kept in a cool, dry and light protected place in the unopened original container, the product can be stored for up to 12 months.

Residual Solvents / Pesticides

We hereby confirm that this product is not made with nor contains any residual solvents. The product is synthetically produced hence contains no pesticides.

GMO

We hereby confirm, that this product does not consist of genetically modified organism (GMO), does not contain any GMO and is not produced from GMO, according the EC regulations 1829/2003 and 1830/2003.

Allergens

We hereby confirm, that this product is free of allergens according the Commission Directive 2007/68/EC amending Directive 2000/13/EC of the European Parliament and of the Council.

Kosher Status

We hereby confirm that this product is in full compliance with the requirements of the Jewish food regulations, a statement on Celtic Chemicals' headed paper is available on request.

Halal Status

We hereby confirm that this product does not contain any blood, porcine material or ethyl alcohol, a statement on Celtic Chemicals' headed paper is available on request.

Irradiation / Animal Testing

We hereby confirm that this product is neither tested on animals nor treated with ionising radiation.

The information contained in this document is based on our current knowledge and experience. It does however not constitute a guarantee in the legal sense of the term and does not relieve those to whom we supply this product from carrying out their own tests and experiments as we do not assume liability for results in the final product. Any legal property rights, provisions and existing legislation pertaining to this product must be observed.

