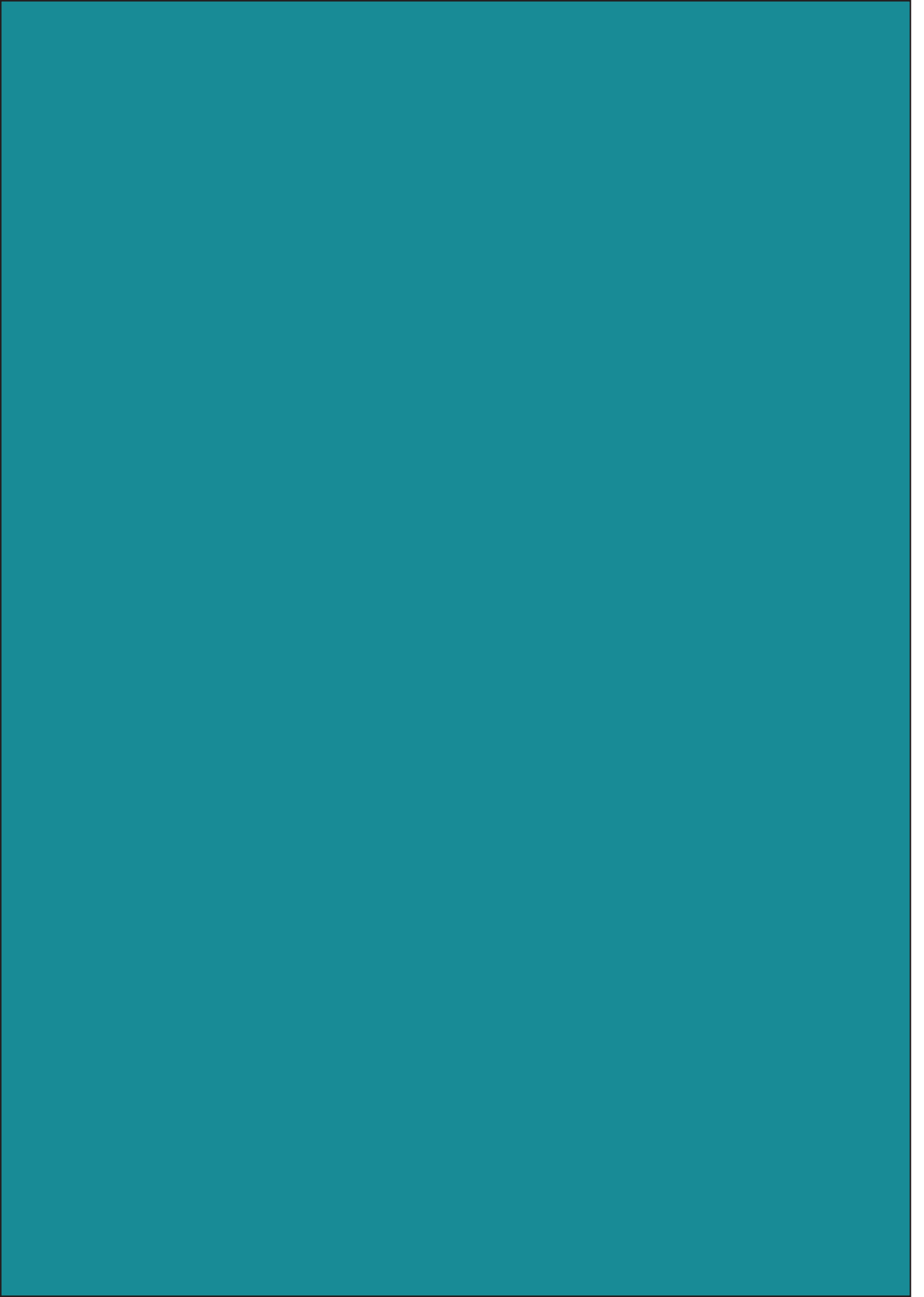




A DIVISION OF PHARMANUTRA

Document exclusively reserved for healthcare workers. Any form of disclosure not authorised by PharmaNutra SpA is forbidden. This document is protected by trademark, design, copyright, licences, commercial or industrial secrets or other rights, and is the exclusive property of PharmaNutra SpA, the sole and legitimate owner. PharmaNutra SpA respects the intellectual property rights of others and asks users to do the same. All rights reserved.



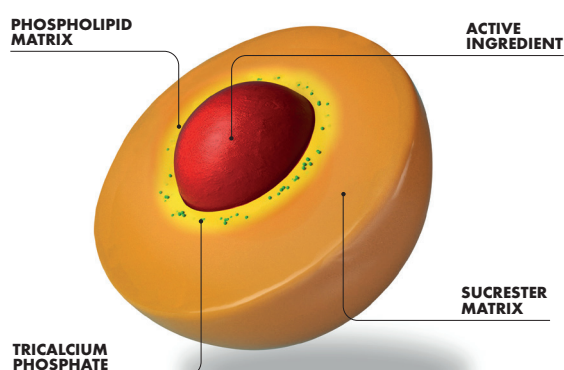
PROPRIETARY PRODUCTS

Alesco products and functional ingredients offer unique, scientifically proven characteristics, suited for a wide range of needs in the pharmaceutical, nutraceutical, food and cosmetics sectors.

We develop and distribute only nationally exclusive products with unique, innovative properties.

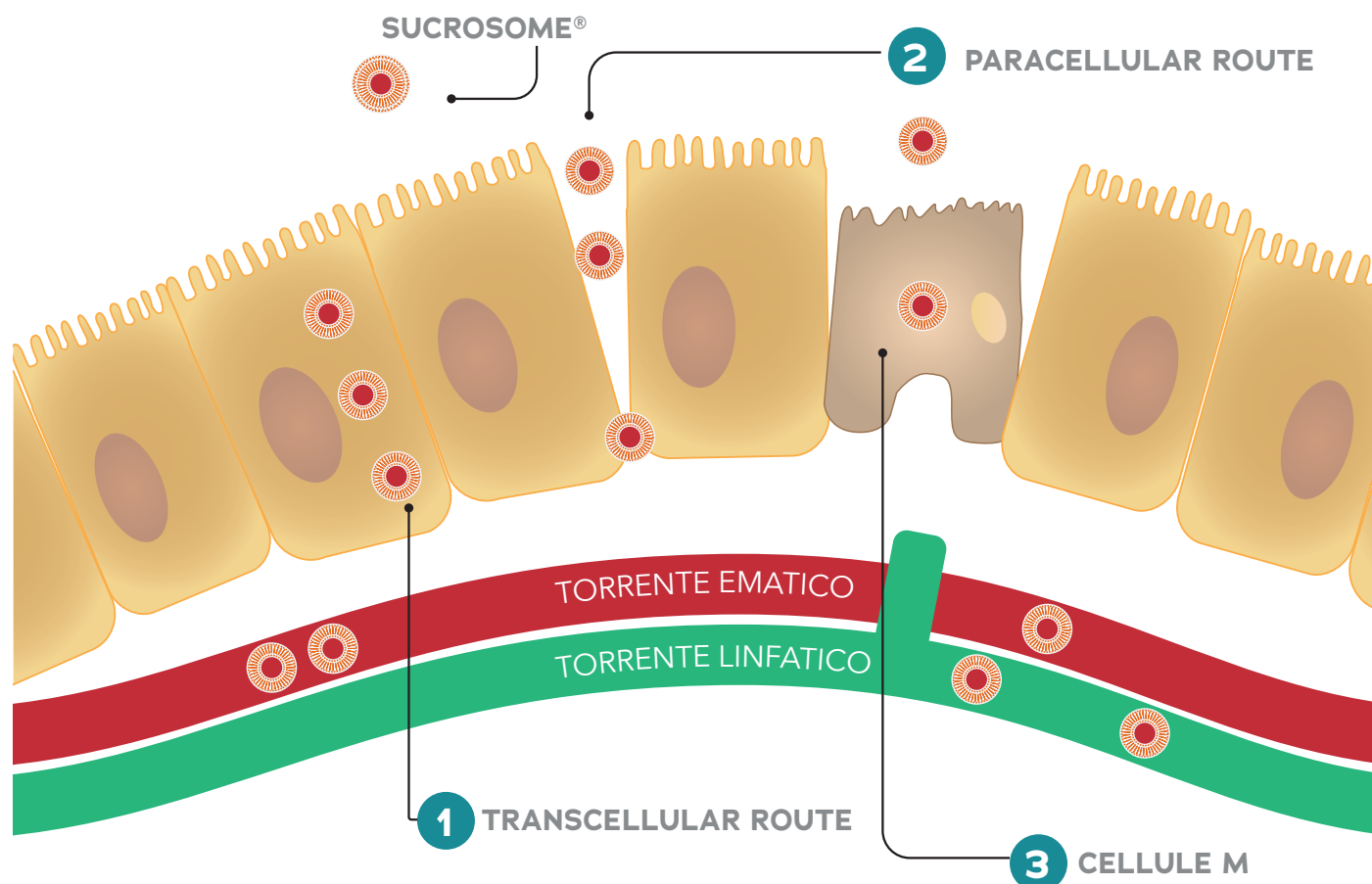
In particular, with Sucrosomial® Technology, a patented delivery system, Alesco supplies mineral complexes, phytoextracts and vitamins with high tolerability, efficacy and absorption.

SUCROSOMIAL® TECHNOLOGY



The active ingredients are encapsulated in an innovative membrane consisting of a phospholipid matrix and sucrose esters of fatty acids that allow them to pass through the acidic gastric environment without interacting with the mucosa and other nutrients and then be absorbed directly in the blood stream.

- Excellent absorption and bioavailability
- High concentration
- Neutral taste
- Does not interfere with the absorption of other nutrients



SUCROSOMIAL® TECHNOLOGY APPLIED TO MACROELEMENTS

SideMag®

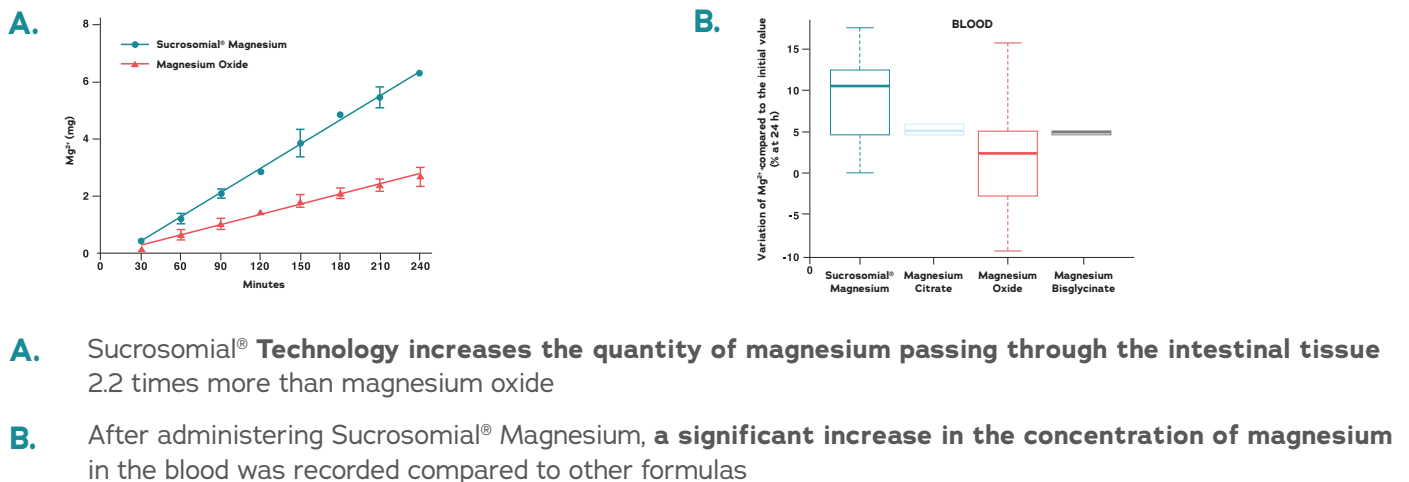
min
32%
Mg

SideMag®

Sucrosomial® Magnesium Oxide, excellence proven by a comparative study.

COMPARATIVE STUDY ON THE BIOAVAILABILITY OF SUCROSOMIAL® MAGNESIUM (SIDEMAG™) VS MAGNESIUM OXIDE, MAGNESIUM BISGLYCINATE AND MAGNESIUM CITRATE

In-vivo test on isolated rat intestine.



SideMag®
marine

min
20%
Mg

SideMag Marine®

Sucrosomial® Magnesium Hydroxide extracted from the pure sea waters of Northern Europe, offering high bioavailability and excellent organoleptic properties.

HEALTH CLAIMS APPROVED BY THE EFSA RELATING TO MAGNESIUM HYDROXIDE INTAKE

“Magnesium contributes to a reduction of tiredness and fatigue”

“Magnesium contributes to normal muscle function”

“Magnesium contributes to normal psychological function”

UltraCal®
sea

min
30%
Ca

UltraCal Sea®

Sucrosomial® Calcium containing *Lithothamnion Calcareum* that guarantees full bioavailability and excellent tolerability.

UltraCal®

min
32%
Ca

UltraCal

Sucrosomial® Calcium with tricalcium phosphate that ensures full bioavailability thanks to the association with Sucrosomial® Technology.

HEALTH CLAIMS APPROVED BY THE EFSA RELATING TO CALCIUM INTAKE

“Calcium is needed for the maintenance of normal bones”

“Calcium contributes to normal muscle function”

“Calcium is needed for the maintenance of normal teeth”

IN ACCORDANCE WITH THE WORLD HEALTH ORGANISATION (WHO)

“[...] the administration of calcium during pregnancy helps to prevent pre-eclampsia.”

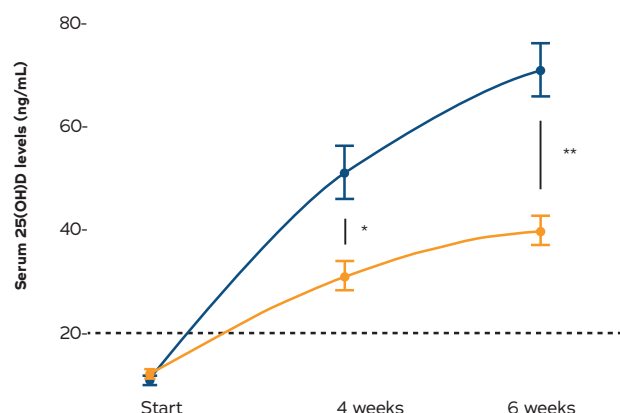
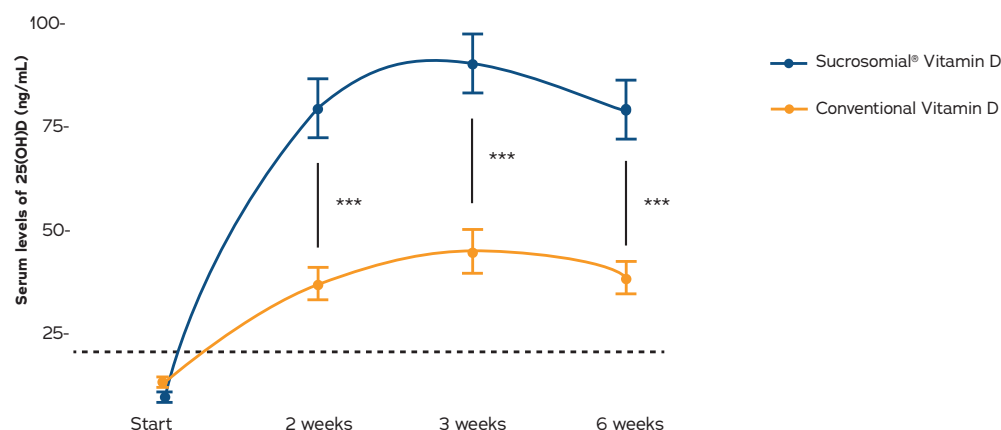
“[...] the administration of calcium improves intake and consequently reduces the risk of hypertension during pregnancy.”

SUCROSOMIAL® TECHNOLOGY APPLIED TO MICROELEMENTS



UltraD3®

Ultra D3® is a new formulation based on Sucrosomial® Vitamin D3, designed to ensure better absorption and proper intake for the well-being of the human body.



HEALTH CLAIMS APPROVED BY EFSA RELATED TO THE INTAKE OF VITAMIN D3

"Vitamin D contributes to the normal absorption/ utilization of calcium and phosphorus"

"Vitamin D contributes to the maintenance of normal bones and teeth"

"Vitamin D contributes to the maintenance of normal muscle function"

"Vitamin D contributes to the normal function of the immune system"



UltraSel®

Sucrosomial® Selenium containing sodium selenite that ensures excellent absorption and bioavailability.

HEALTH CLAIMS APPROVED BY THE EFSA RELATING TO SELENIUM INTAKE

"Selenium contributes to the normal function of the immune system"

"Selenium contributes to the protection of cells from oxidative stress"

"Selenium contributes to the normal thyroid function"

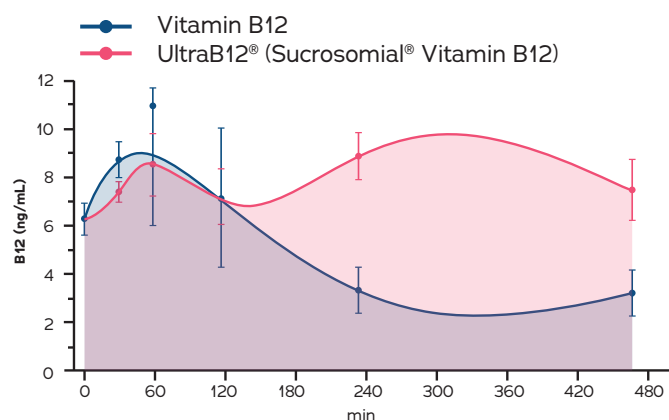
UltraB12

Ultra B12® is a new formulation based on Sucrosomial® Vitamin B12, designed to ensure maximum absorption, high bioavailability, and better tolerance.

PRE-CLINICAL RESEARCH

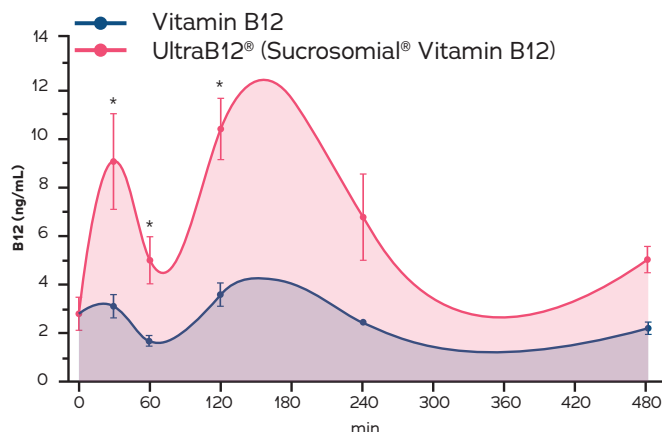
PharmaNutra S.p.A. constantly invests in scientific research to obtain active ingredients that boast superior bioavailability compared to conventional ones.

Kinetic profile of Vitamin B12 in wild-type mice*



The bioavailability of UltraB12® is 2.5 times greater than that of conventional Vitamin B12.

Kinetic profile of Vitamin B12 in mice with gastric atrophy*

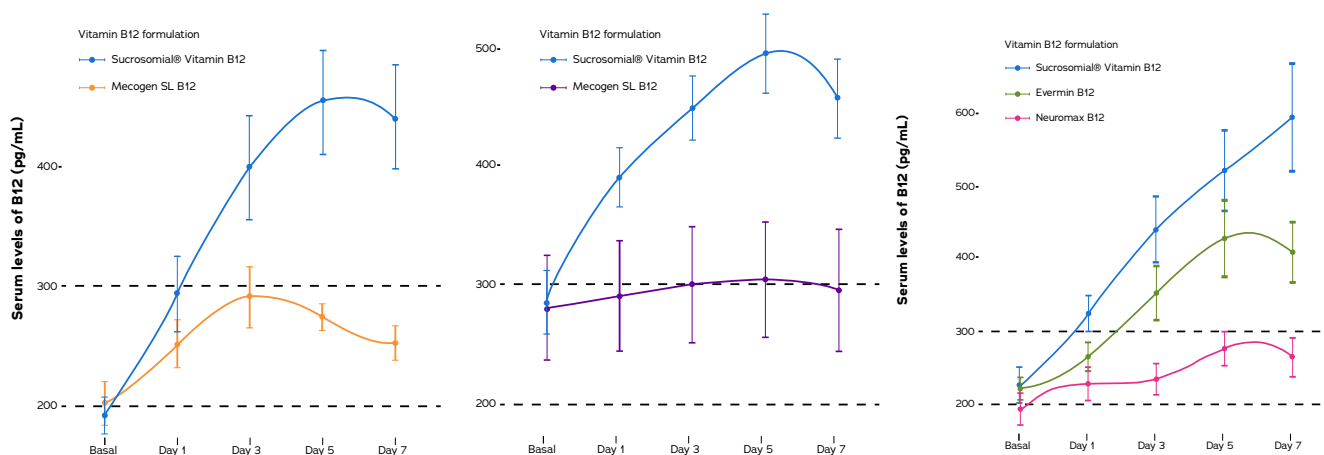


The peak plasma concentration of UltraB12® is reached after 4 hours, 3 times higher than that of conventional Vitamin B12.

*Internal data

CLINICAL RESEARCH

Comparative bioavailability study of supplemental oral Sucrosomial® vs. oral conventional vitamin B12 in enhancing circulatory B12 levels in healthy deficient adults: a multicentre, double-blind randomized clinical trial
Memon NM, et al. 2024



Sucrosomial® Vitamin B12 shows superior results compared to conventional treatment

HEALTH CLAIMS APPROVED BY THE EFSA RELATING TO VITAMINE B12

"Vitamin B12 contributes to normal energy metabolism"

"Vitamin B12 contributes to the normal functioning of the nervous system"

"Vitamin B12 contributes to the normal metabolism of homocysteine"

"Vitamin B12 contributes to the normal function of red blood cells"

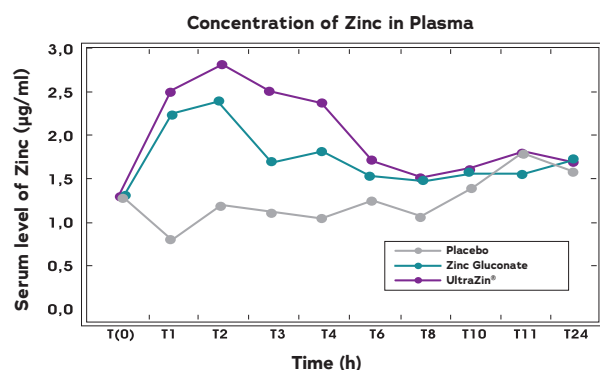


UltraZin®

It is Sucrosomial® Zinc containing Zinc Oxide that ensures correct zinc intake without side effects.

COMPARATIVE STUDY OF ULTRAZIN™ VS ZINC GLUCONATE

In-vivo study on rats with diets with low zinc content receiving UltraZin®, Zinc Gluconate and a placebo.



UltraZin® shows a significant increase in concentrations of zinc in the blood compared to zinc gluconate.

HEALTH CLAIMS APPROVED BY THE EFSA RELATING TO ZINC INTAKE

"Zinc contributes to the normal function of the immune system"

"Zinc contributes to the protection of cells from oxidative stress"

"Zinc contributes to normal cognitive function"

"Zinc contributes to the maintenance of normal hair"

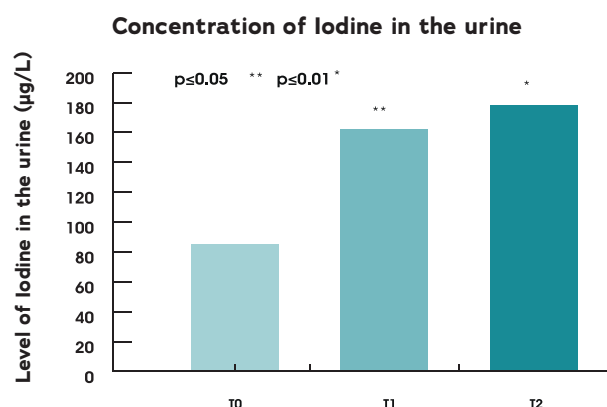


Ultralod®

It is Sucrosomial® Iodine containing Sodium Iodate, able to ensure excellent bioavailability and a correct Iodine intake.

EVALUATION OF RENAL EXCRETION OF IODINE

Study conducted on 20 healthy volunteers with a normal diet.



The increase in urinary iodide is closely correlated to the quantity of iodine in the body, and offers a useful parameter for underlining the absorption and bioavailability of Ultralod®.

HEALTH CLAIMS APPROVED BY THE EFSA RELATING TO IODINE INTAKE

"Iodine contributes to the normal production of thyroid hormones and normal thyroid function"

"Iodine contributes to normal cognitive function"

"Iodine contributes to normal functioning of the nervous system"



min
9 %
Cr

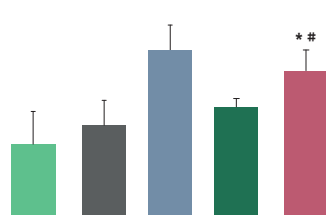
UltraChrome®

Sucrosomial® Chromium, ensuring excellent bioavailability and correct chromium intake.

MODULATION OF INSULIN-DEPENDENT GLUCIDIC METABOLISM

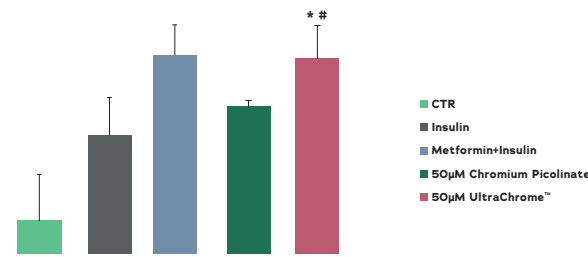
GLUT - 4

GLUT-4 (µg/L)



GLUCOSE UPTAKE

Concentration of glucose (nmol)



GLUT - 4

At low doses, significantly stimulates the synthesis of the glucose carrier GLUT-4 on the surface of muscle cells (19.7%) compared to Chromium Picolinate (6.8%)

GLUCOSE UPTAKE

At low doses, significantly increases the entry of glucose in muscle cells (23.6%) compared to Chromium Picolinate (8.7%)

OTHER SPECIALITIES



UltraMir® HYDROGLYCERIC AND MYRRH OIL EXTRACTS

The sesquiterpenes present in myrrh have a powerful local anaesthetic and analgesic effect, with antiseptic and antibacterial properties. **UltraMir® Oil** has local analgesic properties. **UltraMir® Hydro** is antiseptic against fungi and bacteria.



UltraSterol® AN INNOVATIVE FORM OF PHYTOSTEROLS FOR PROTECTING THE HEART

It exploits microencapsulation technology, encasing the free phytosterols that help to maintain normal exogenous cholesterol levels.



UltraJoint®

Vegetable glucosamine for healthy joints. Glucosamine is involved in the production of cartilage in the joints, and at the same time reduces inflammation.



UltraRed® RED RICE YEAST

Obtained by natural fermentation with Monascus Purpureus yeast. The Monacolin K contributes to the maintenance of normal blood cholesterol levels. Alesco guarantees and certifies the origin from natural fermentation.

ALESCO

Since 2000 Alesco has been committed to introducing innovative raw materials to the Italian nutraceutical, pharmaceutical and food market, supported by scientific evidence and produced using the best technologies.

OUR SERVICES

In addition to supplying functional ingredients and raw materials to the pharmaceutical, nutraceutical and food industry, Alesco makes available a number of services to its Italian and foreign partners:

- Know-how and scientific research
- Scientific back-up for ingredients
- Support in the formulation and supply of finished products
- Technical and commercial training for the sales force
- Image and communication consulting for raw materials
- Contact with medical and scientific opinion leaders



PharmaNutra S.p.A.
via Campodavella, 1 - 56122 Pisa

+39 050 7846500
alescosrl.com - info@alescosrl.com

