



supple✓it

ABOUT US

Supplevit

Supplevit, brand of Mirpain, has an outstanding experience in the research and development, production and commercialization of high-quality vitamin and mineral premixes. All around the world we are supplying our premixes to help fighting against malnutrition.

Supplevit by Mirpain is approved by Global Alliance for Improved Nutrition (GAIN). We are also collaborating with UNICEF, and approved by World Food Program (WFP).

Mirpain has ISO 9001, ISO 22000, GMP and FSSC 22000 quality certificates and has a deep commitment to scientific progress, quality control, and safety.

- ✓ Flour & Maize Fortification Premix
- ✓ Date Bar and HEB Fortification Premix
- ✓ MNP (Micronutrient Powder)
- ✓ RUTF & RUSF & LNS Fortification Premix
- ✓ Oil Fortification
- ✓ Beverage Fortification
- ✓ Energy Drink Fortification
- ✓ Dairy Fortification
- ✓ Baby Food Fortification
- ✓ Super Cereal Fortification
- ✓ Infant Cereal Fortification
- ✓ Gummy Fortification
- ✓ Confectionary Fortification



LABORATORY

That are made in our laboratory analyzes in our laboratory with our qualified team. Some of the analyzes that are made in our laboratory:

- ✓ Microbiological Analysis
- ✓ Vitamin Analysis
- ✓ Mineral Analysis
- ✓ Heavy Metal Analysis
- ✓ Physical Analysis
- ✓ Rheological analysis with extensograph, farinograph, alveograph and mixolab.

We are using HPLC (High pressure liquid chromatography) for the determination of vitamins.

- ✓ Vitamin A Analysis
- ✓ Vitamin B Groups Analysis (B₁, B₂, B₃, B₅, B₆, B₇, B₉, B₁₂)
- ✓ Vitamin C (Ascorbic Acid) Analysis
- ✓ Fat Soluble Vitamins (Vitamin D₃, Vitamin E and Vitamin K₁)



Our mineral analysis is performed by using AAS (Atomic Absorption Spectrophotometer) and ICP-OES (Inductively Coupled Plasma Atomic Emission Spectroscopy).

- ✓ Raw Material of Minerals
- ✓ Determination of Minerals on the Premix
- ✓ Heavy Metals Analysis for Raw Materials and Premixes



WHEAT & MAIZE FLOUR FORTIFICATION

Premix ingredients are changeable according to related country's regulations. Premix includes specific minerals and vitamins according to micronutrient deficiency.



Vitamin A
Vitamin B1
Vitamin B2
Vitamin B3
Vitamin E
Vitamin B6
Vitamin B12
Iron
Folic Acid
Calcium
Vitamin K
Zinc
Biotin
Vitamin D
Pantotenic Acid



VITAMINS

- ✓ Vitamin B₁
- ✓ Vitamin B₂
- ✓ Vitamin B₃
- ✓ Vitamin B₅
- ✓ Vitamin B₆
- ✓ Vitamin B₇
- ✓ Vitamin B₉
- ✓ Vitamin B₁₂
- ✓ Vitamin A
- ✓ Vitamin D
- ✓ Vitamin E
- ✓ Vitamin K

IRON SOURCES

- ✓ Elemental Iron
- ✓ Sodium Iron EDTA
- ✓ Ferrous Fumarate
- ✓ Ferrous Sulphate
- ✓ Ferric Pyrophosphate

MINERALS

- ✓ Iron
- ✓ Zinc
- ✓ Calcium

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CORN SOYA BLEND - V13

Super cereal is a part of World Food Programme's initiative treating malnutrition and improve child health and development.

INGREDIENTS

- ✓ Vitamin A
- ✓ Vitamin B₅
- ✓ Vitamin D
- ✓ Vitamin B₆
- ✓ Vitamin E
- ✓ Vitamin B₇
- ✓ Vitamin K
- ✓ Vitamin B₉
- ✓ Vitamin C
- ✓ Vitamin B₁₂
- ✓ Vitamin B₁
- ✓ Iron
- ✓ Vitamin B₂
- ✓ Zinc
- ✓ Vitamin B₃
- ✓ Iodine



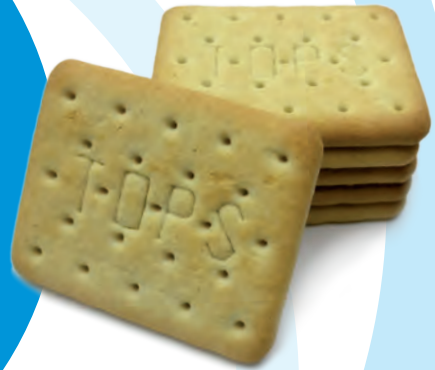
- ✓ Di-Calcium Phosphate (DCP)
- ✓ Potassium Chloride (KCl)
- ✓ Vitamin Mineral Premix (V13)

DATE BAR & HIGH ENERGY BISCUIT (HEB) FORTIFICATION

Date Bars and High Energy Biscuits are specialized product developed by the World Food Programme (WFP) and Supplevit provides vitamin and mineral premix for Date Bars & High Energy Biscuits according to WFP specification.

INGREDIENTS OF PREMIX

- ✓ Vitamin A
- ✓ Vitamin B₁
- ✓ Vitamin B₂
- ✓ Vitamin B₃
- ✓ Vitamin B₅
- ✓ Vitamin B₆
- ✓ Vitamin B₇
- ✓ Vitamin B₉
- ✓ Vitamin B₁₂
- ✓ Vitamin D
- ✓ Vitamin E
- ✓ Iron
- ✓ Zinc
- ✓ Iodine
- ✓ Phosphorus



BABY BISCUIT

Fortification of baby biscuits can be an important strategy to improve the nutritional status and health of infants and young children. Baby biscuit fortification refers to the process of adding essential nutrients to baby biscuits to ensure that they provide adequate nutrition for infants and young children. Baby biscuits are often one of the first solid foods introduced to babies after they start to eat solid foods.

INGREDIENTS

- ✓ Iron
- ✓ Calcium
- ✓ Zinc
- ✓ Magnesium
- ✓ Vitamin A
- ✓ Vitamin D
- ✓ Vitamin C
- ✓ Vitamin E
- ✓ Vitamin B₁₂



RUTF & RUSF & LNS FORTIFICATION

RUTF (Ready-to-Use Therapeutic Food), RUSF (Ready-to-Use Supplementary Food) and LNS (Lipid-Based Nutrient Supplement) are types of specialized food products used by UNICEF, WFP and aid agencies.



RUTF & RUSF & LNS may include;

- ✓ Vitamin A
- ✓ Vitamin D
- ✓ Vitamin E
- ✓ Vitamin K
- ✓ Vitamin C
- ✓ Vitamin B₁
- ✓ Vitamin B₂
- ✓ Vitamin B₃
- ✓ Vitamin B₅
- ✓ Vitamin B₆
- ✓ Vitamin B₉
- ✓ Vitamin B₁₂
- ✓ Iron
- ✓ Zinc
- ✓ Iodine
- ✓ Calcium
- ✓ Phosphorus
- ✓ Potassium
- ✓ Magnesium
- ✓ Manganese
- ✓ Copper
- ✓ Selenium



MNP (MICRONUTRIENT POWDER)



MNP is primarily used as a strategy to address micronutrient deficiencies, which are widespread in many developing countries.

1 box = 1 gr x 30 sachets



Composition Per One Gram Sachet

Vitamin A	400,00 µg
Vitamin C	30,00 mg
Vitamin D3	5,00 µg
Vitamin E	5,00 mg
Vitamin B1	0,50 mg
Vitamin B2	0,50 mg
Vitamin B3	6,00 mg
Vitamin B6	0,50 mg
Vitamin B12	0,90 µg
Folic Acid	90,00 µg
Iron	10,00 mg
Zinc	4,10 mg
Copper	0,56 mg
Selenium	17,00 µg
Iodine	90,00 µg



Micronutrient powder
children 6-59 months
One sachet per child per day.
Mix with food before
consumption.



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OIL FORTIFICATION

PRODUCT NAME	OILY VITAMIN BLEND AD ₃	
PRODUCT DEFINITION	Specially Vitamin Premix For Edible Oil	
COMPOSITION	Compound Name	Min-Max Limit
	Vitamin A Source : Oily Vitamin A Palmitate 1,000,000 IU / g	1,000,000-1,100,000 IU/g blend
	Vitamin D ₃ Source : Oily Vitamin D ₃ 100,000 IU / g	100,000- 110,000 IU/g blend
	Carrier : Sunflower Oil	

AD₃



AD₃ Oil Fortification Blend is a specialized blend of vegetable oil fortified with Vitamin A and Vitamin D₃, developed by the World Food Programme (WFP) to improve the nutritional value of food.

AD₃ Oil Fortification is in 5 kg plastic bottles.

ENERGY DRINK AND BEVERAGE FORTIFICATION

Fortified beverages are; juices, chocolate (malt) beverages, instant flavoured drinks, energy and sports drinks.

Juice Premix

- ✓ Vitamin C
- ✓ Vitamin D
- ✓ Iron
- ✓ Calcium
- ✓ Folic Acid.



Energy Drink

- ✓ Vitamin B₁
- ✓ Vitamin B₂
- ✓ Vitamin B₃
- ✓ Vitamin B₆
- ✓ Vitamin B₁₂
- ✓ **Caffein**
- ✓ **Taurine**
- ✓ **Inositol**
- ✓ **Glucuronolactone**



Sports Drink

- ✓ Calcium
- ✓ Sodium
- ✓ Potassium
- ✓ Magnesium



INFANT CEREAL & BABY FOOD

Infant cereal is a processed cereal-based complementary foods for young children aged 6-59 months. The product is used to complement breast feeding. Fortification premix includes nutrients that are important for the growth and development of infants, particularly during the first year of life when their bodies rapidly growing and developing.



INGREDIENTS

- ✓ Vitamin A
- ✓ Vitamin D
- ✓ Vitamin E
- ✓ Vitamin K
- ✓ Vitamin C
- ✓ Vitamin B₂
- ✓ Vitamin B₃
- ✓ Vitamin B₅
- ✓ Vitamin B₆
- ✓ Vitamin B₉
- ✓ Vitamin B₁₂
- ✓ Iron
- ✓ Zinc
- ✓ Iodine
- ✓ Selenium



BREAKFAST CEREAL

Breakfast cereal fortification is an effective way to improve nutritional intake and quality of the food, contribute the immune system and reduce the deficiencies in the population.

INGREDIENTS

- ✓ Vitamin B₁
- ✓ Vitamin B₂
- ✓ Vitamin B₃
- ✓ Vitamin B₅
- ✓ Vitamin B₆
- ✓ Vitamin B₉
- ✓ Vitamin D₃
- ✓ Iron
- ✓ Calcium
- ✓ Magnesium



DAIRY FORTIFICATION

Fortified dairy products, can be milk, cheese, yoghurt, drinking yoghurt, milk powder. Also, specially targeted products are developed such as infant milk fortification that intended for babies to support bone and immune development at the first year.

Dairy Products



- ✓ Vitamin A
- ✓ Vitamin D
- ✓ Vitamin E
- ✓ Vitamin K
- ✓ Vitamin B₁
- ✓ Vitamin B₂
- ✓ Vitamin B₃
- ✓ Vitamin B₅
- ✓ Vitamin B₆
- ✓ Vitamin B₇
- ✓ Vitamin B₉
- ✓ Vitamin B₁₂
- ✓ Vitamin C
- ✓ Selenium
- ✓ Zinc
- ✓ Magnesium
- ✓ Phosphorus



GUMMY & CONFECTIONARY

Gummy fortification is more appealing and tasty to the consumers such as children to consume and take essential micronutrients. According to target audience the content may vary.



- ✓ Vitamin A
- ✓ Vitamin C
- ✓ Vitamin D
- ✓ Vitamin E
- ✓ B group vitamins
- ✓ Calcium
- ✓ Magnesium
- ✓ Zinc
- ✓ Selenium
- ✓ Chromium



Confectionary products such as toffee, jellies, lollipops, chocolate, hard candy and soft candy can be fortified with vitamins and minerals according to customer's request. Commonly used ingredients are; **Vitamin C, Vitamin D, Vitamin K, Calcium, Zinc.**



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