






Presentation of the main Nutriset products

Food designed for the dietetic treatment of severe malnutrition

These food products are dedicated to the treatment of severe malnutrition with children or adults, following the re-nutrition protocol of the World Health Organization (*WHO / 1999 Management of severe malnutrition: a manual for physicians and other senior health workers* <http://www.who.int/nut/>)

These food products must be used under medical supervision.

Product name	Description	Estimated Quantities	Packaging and unit sale
ReSoMal 	Specific re-hydration salts for severely malnourished people	42 g / 10 kg child / treatment	Carton of 130 sachets 84 g each (10,92 kg)
Therapeutic milk F75 	75 kcal for 100 ml. Milk for the initial phase of the management of severe malnutrition and the treatment of medical complications. (phase 1)	100 kcal / body weight / day (during 3 days)	Carton of 20 sachets 410 g each (8.2kg)
Therapeutic milk F100 	100 kcal for 100 ml. Milk for the nutritional rehabilitation phase (quick weight gain). (phase 2)	150 to 200 kcal / body weight / day (+/- 3 weeks)	Carton of 30 sachets 456 g each (13.68kg)

Alternative products	Description	Estimated Quantities	Packaging and unit sale
Plumpy'nut® (1) 	Ready to use therapeutic food (RUTF) with a high nutritional value. To be used from phase 2 (nutritional rehabilitation).	At 200 kcal / body weight / day, average of 13.8 kg / child / treatment	Carton of 150 sachets 92 g each (13.8kg)
Therapeutic CMV (2) (Complex of Minerals and Vitamins) 	Mineral and vitamin premix for the preparation of therapeutic milk and ReSoMal. For use in dietary treatment of severe acute malnutrition.	(2)	Carton of 6 pots 800 g each (4.8kg)

(1) From phase 2 of the treatment, it is possible to alternate and replace F-100 with plumpy'nut®. Plumpy'nut®'s nutritional value is similar to F-100 therapeutic milk and is ready to use, as is. It can be distributed directly to the mother for home treatment. For the use of plumpy'nut®, follow the same WHO recommendations as for F-100 therapeutic milk (200 kcal/kg/day).





(2) It is possible to prepare F100 and F75 therapeutic milk and ReSoMal by using therapeutic CMV. A 800 g tin makes it possible to prepare 252 liters of solution (F100 or F75 or ReSoMal). For more information, see data-sheet (To reconstitute ReSoMal: 6,35 g of therapeutic CMV+ 50 g sugar + 1 sachet of ORS + 2 litres of water. To fortify High Energy Milk: 6.35 g of therapeutic CMV + 2 litres of HEM)

Food products for nutritional support

A varied diet is the best to prevent any risk of nutritional deficiency. However, in certain circumstances, providing a well balanced diet is difficult, even impossible (refugees or displaced populations, prisoners and specific illnesses...). This is the reason why Nutriset has developed a range of products designed to add the minerals and vitamins that are missing from the usual food.

These products are suitable for children (from 12 months of age) and adults.

Product name	Proteins	Lipids	Carbohydrates	Minerals & vitamins
QBmix				X
Plumpy'sauce		X	X	X
Plumpy'nut [®]	X	X	X	X
Supplementary Plumpy'	X	X	X	X
SP450	X	X	X	X

Product name	Description	Estimated Quantities	Packaging and unit sale
QBmix (1) 	Fortified condiment to be added to the family dish after cooking enhancing adequate micronutrient status	1.5 g / person / day / 15 days	Available in carton of 120 pots of 75 g each (9 kg) or 6 pots of 900 g each (5.4 kg)
Plumpy'sauce (2)	Fortified sauce to be added to the family dish after cooking	+/- 30 g / person / day	Available on demand in carton of 120 sachets of 120 g sachets or in 40 g sachets
Plumpy'doz[®] 	Food supplement (RUSF). To reduce incidence of acute malnutrition	46.3 g / child / day / 6 months	Carton of 36 pots 325 g each (11.7 kg) Available on demand
Plumpy'soy[®]	Soy-based (RUSF) provides nutritional support to at-risk groups (including PLWHA)	2 sachets / adult / day / 6 months	Available on demand
Supplementary Plumpy' 	Soy-based (RUSF) addresses moderate acute malnutrition in children > 6 months of age	One 92 g sachet / day / 3 months	Carton of 150 sachets 92 g each (13.8 kg)
Nutributter 	Complementary Food Supplement (RUSF) enhances growth and motor development	20 g / infant / day / 6 months	Available on demand
SP450 (3)	Preparation for supplementary porridge	100 g / p / day for a supplementary ration of 450 kcal.	Available on demand in 20 kg bags (min. 15TM)
Unimix/ CSB / WSB	Fortified cereals flours		Available on demand in 25 kg bags


RUSF = Ready-to-Use Supplementary Food RUTF = Ready-to-Use Therapeutic Food

- (1) Qbmix[®] is a fortified condiment used in the prevention or in the treatment of nutritional deficiencies in emergency situations, mainly deficiencies in vitamin C (Scurvy), in Niacin (Pellagra), and in vitamin B1 (Beriberi).
- (2) Plumpy'sauce is used like a sauce and is added to the family dish after cooking. Plumpy'sauce is designed to complete a cereal base ration. A single table spoonful of plumpy'sauce per person per day (+/- 30 g) is enough to provide the nutritional elements missing in the food, while increasing the energy value of the meal.
- (3) S.P. 450 flour was designed for nutritional support or rehabilitation programs. S.P.450 flour is particularly suitable for vulnerable groups (young children, pregnant and lactating women, elderly people, moderately or severely malnourished people...) in phase 2 of the re-nutrition treatment. The nutritional contents correspond to the following recommendations: *Golden MHN. Briand A. Grellety Y. Treatment of malnutrition in refugee camps. European Journal of Clinical Nutrition 1995; 49: 137-145.*

Other food products available for nutritional support:


- **ZINCFANT 20 mg:** 20mg zinc dispersible tablets, complement the treatment of child diarrhea in connection with Oral Rehydration Salts.
Zincfant 20 mg is particularly adapted for children from 2 months. By giving zinc as soon as diarrhoea starts, the duration and severity will be reduced. By continuing zinc supplementation after diarrhoea stops, the zinc lost in the stools will be replaced. The risk of the child having new episodes of diarrhoea in the following 2 to 3 months is reduced.

For further information please refer to WHO/UNICEF joint statement www.unicef.org.
20 mg dispersible zinc tablet is referenced in the “Essential Drug List” of WHO.

Product name	Description	Estimated Quantities	Packaging and unit sale
Zincfant® 20mg 	20 mg zinc dispersible tablets to help with acute diarrhea in children	✓ For infants between 2 and 6 months of age: half a tablet (10 mg elemental zinc) once daily for 10 consecutive days ✓ For children between 6 months and 5 years of age: one full tablet (20 mg elemental zinc) once daily for 10 consecutive days. (+ORS)	Blisters of 10 tablets 10 blisters per packet Carton of 7200 tablets

Other products available:

- **Milk powders:**

Product name	Description	Estimated Quantities	Packaging and unit sale
Delphia® 	Infant milk formula 0-12 months	See feeding table on the box To use strictly in accordance with the WHO «International Code of Marketing of Breastmilk Substitutes».	

Glossary:

Undernutrition is defined as the outcome of insufficient food intake and repeated infectious diseases (UNICEF, 2007). Nutriset developed nutritional products that aim at preventing and/or treating mild forms of undernutrition. These products can also be used as a nutritional support to at-risk groups such as IDPs, refugees or even PLWHA. In its efforts to combat nutrition related disorders, Nutriset also developed products for acute diarrhea in children.

Stunting is a failure to grow in stature, and occurs as a result of inadequate nutrition over a longer time period. «In disadvantaged populations, growth faltering is most evident in the first year of life, and is often accompanied by micronutrient deficiencies and high rates of infection. After two years of age, it is difficult to reverse the growth stunting that has occurred earlier.» (K. Dewey et al, Journal of Nutrition, 2001;131:1879-1880)

Moderate acute malnutrition is defined by a low weight for height (between 80 % and 70% of the reference median). «There are many ways to address moderate malnutrition, for example through the improvement of the general food ration. In disasters, targeted supplementary feeding is often the primary strategy for correction of moderate malnutrition and prevention of severe malnutrition.» (Sphere handbook 2004)

Severe acute malnutrition is defined by a very low weight for height (below 70% of the reference median), by visible severe wasting, or by the presence of nutritional oedema. In children aged 6–59 months, an arm circumference less than 110 mm is also indicative of severe acute malnutrition. Globally, it is estimated that there are nearly 20 million children who are severely acutely malnourished. Most of them live in south Asia and in sub-Saharan Africa (WHO, 2007).

Nutriset products comply with existing internationally recognized nutrition protocols and manuals ; including the 1999 WHO manual : «Management of severe malnutrition : Manual for physicians and other senior health workers».