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Book of Technical Specifications English

S0000242

RUTF (Ready to use Therapeutic Food) Biscuit

Description

BP- 100 is a Ready-to-Use Therapeutic Food (RUTF) biscuit, a high-energy fortified food equivalent to that of the WHO-F100 rehabilitation diet but with a higher energy density. RUTF biscuit may be used in a wide variation of climatic zones and may be the sole source of food, except for water and breast milk, during the period of use.

Packed in cartons of 24 packs where each pack contains 9 bars.

Each bar is 2 biscuits of 28.4 g.

Suggested dosage

-The average daily dosage of BP 100 equal to 2 sachets of RUTF (92g) is 7 x 28.3g tablets of BP 100.

-Each box of BP-100 contains 510g, enough for 2,6 days for a child using 7 tablets a day.

-1 carton (12.24 Kg net weight) of BP-100 provides treatment for an average SAM child for 63 days

Technical specification:

1 - Biscuits are compressed bars, manufactured from a mixture of cereal, milk powder, vegetable oil and carbohydrates, with added vitamins and minerals.

2 - **Ready to use:** be eaten directly (no cooking/mixing/dilution required) or crumbled into drinking water and eaten as porridge.

3 - **Storage conditions:** as defined by the manufacturer, no refrigeration required.

4 - **Shelf life:** 4 years

Nutritional composition

Moisture content: 4% maximum

Water activity: 0.6 maximum

Energy: 500 kcal/100 g minimum



Proteins: 10-12% total energy

12.3-15.5% by weight

Lipids: 45-60% total energy

24.8-33.0% by weight

n-6 fatty acids: 3-10% total energy

n-3 fatty acids: 0.3-2.5% total energy

Trans-fatty acids: <3% total fat

Carbohydrates (difference): 40-6-% (approx., by weight)

Fibres: 5% maximum

Ash: 5g /100g maximum

Minerals (per 100g)

Sodium: <290 mg

Potassium: 1100-1400 mg

Calcium: 300-600 mg

Phosphorous: 300-600 mg, Expressed in terms of non-phytate phosphorus

Magnesium: 80-140 mg

Iron: 10-14 mg

Zinc: 11-14 mg

Copper: 1.4-1.8 mg

Selenium: 20-40 mcg

Iodine: 70-140 mcg

Vitamins (per 100g)

vitamin A (Retinol Equivalent): 0.8-1.1mg

vitamin B1 (Thiamine): >0.5 mg

vitamin B2 (Riboflavin): >1.6 mg

vitamin B3 (Niacin): >5 mg

vitamin B5 (Pantothenic acid): >3 mg

vitamin B6 (Pyridoxine): >0.6 mg

vitamin B7 (Biotin): >60 mcg

vitamin B9 (Folic acid): >200 mcg

vitamin B12 (Cyanocobalamin): >1.6 mcg

vitamin C (Ascorbic acid): >50 mg

vitamin D (Cholecalciferol): 15-20 mcg

vitamin E (Tocopherol): >20 mg

vitamin K (Phytonadione): 15-30 mcg

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LNS-MQ Biscuit

General description:

Medium Quantity Lipid Based Supplement (MQ-LNS), spread, is a food supplement intended to prevent malnutrition for children 6 months and older. The product is consumed directly from the sachet without dilution, mixing or cooking. One sachet contains one daily dose of 50g, each carton contains 300 sachets. One sachet per day is the recommended dose of MQ-LNS and provides approximately 267 kcal. This product should not replace breast-milk.

Technical specifications:

MQ-LNS is a fortified, stabilised lipid-based paste or spread that is individually packaged into sachets. MQ-LNS is generally made with heat treated oil seeds, pulses or cereals together with sugar, milk powder, vegetable oils, vitamins and minerals.

Nutritional Content per 100g finished product

Energy: 510 -560kcal

Protein: 11 - 16g (3.6g from milk protein sources)

Lipids: 26 - 36g

Omega: 6 fatty acids: 2.6 - 6.10g

Omega: 3 fatty acids: 0.3 - 1.8g

Trans fats: <3% total fat

Vitamins: Min Max

vitamin A (Retinol Equivalent): 550mcg - 1150mcg

vitamin B1 (Thiamine): >1.0mg

vitamin B2 (Riboflavin): >2.1mg

vitamin B3 (Niacin): >13mg

vitamin B5 (Pantothenic acid): >4.0mg

vitamin B6 (Pyridoxine): >1.8mg

biotin >60mcg



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folates (as dietary folic acid equiv) >330mcg

vitamin B12(Cyanocobalamin): >2.7 mcg

vitamin C (Ascorbic acid): >60mg

vitamin D (Cholecalciferol): 15mcg - 20mcg

vitamin E (Tocopherol): >16mg

vitamin K (Phytonadione): >27mcg

Minerals: Min Max

Calcium: 535- 750mg

Phosphorus: 450- 750mg

Potassium: 900- 1400mg

Magnesium: 150- 225mg

Manganese: 1.2- 2.4mg

Zinc: 11- 14mg

Copper: 1.4- 1.9mg

Iron: 10- 14mg

Iodine: 100- 140mcg

Selenium: 20- 40mcg

Sodium: <270 mg

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RUSF (Ready to use Supplementary Food) Biscuit

Description:

Is a food supplement intended to be used as part of a nutritional program, to treat moderate acute malnutrition (MAM) for children over 6 months, for a period of 2-3 months. RUSF is intended to be eaten directly from the package with no dilution, mixing or cooking. One sachet per day is the recommended dose of RUSF and provides approximately 535kcal.

Technical specifications:

RUSF is a fortified, stabilized lipid-based paste or spread that is individually packaged into sachets. RUSF is generally made with heat treated oil seeds, pulses or cereals together with sugar, milk powder, vegetable oils, vitamins and minerals.

Nutritional Content per 100g finished product

Energy: 510 -560kcal

Protein: 11 - 16g (3.6g from milk protein sources)

Lipids: 26 - 36g

Omega: 6 fatty acids: 2.6 - 6.10g

Omega: 3 fatty acids: 0.3 - 1.8g

Trans fats: <3% total fat

Vitamins: Min Max

vitamin A (Retinol Equivalent): 550mcg - 1150mcg

vitamin B1 (Thiamine): >1.0mg

vitamin B2 (Riboflavin): >2.1mg

vitamin B3 (Niacin): >13mg

vitamin B5 (Pantothenic acid): >4.0mg

vitamin B6 (Pyridoxine): >1.8mg

biotin >60mcg

folates (as dietary folic acid equiv) >330mcg

vitamin B12(Cyanocobalamin): >2.7 mcg

vitamin C (Ascorbic acid): >60mg



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vitamin D (Cholecalciferol): 15mcg - 20mcg

vitamin E (Tocopherol): >16mg

vitamin K (Phytonadione): >27mcg

Minerals: Min Max

Calcium: 535- 750mg

Phosphorus: 450- 750mg

Potassium: 900- 1400mg

Magnesium: 150- 225mg

Manganese: 1.2- 2.4mg

Zinc: 11- 14mg

Copper: 1.4- 1.9mg

Iron: 10- 14mg

Iodine: 100- 140mcg

Selenium: 20 - 40mcg

Sodium: <270 mg



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HEB (High Energy Biscuits)

General Description:

High Energy Biscuits (HEB) are biscuits high in energy and protein and supplemented with a premix of vitamins and minerals. There are 100 packages weighing 100 g each, for a total of 10.00 kg net.

Intended use:

HEB are intended for general food distribution, school feeding and use in emergencies.

This ready to eat food is used to cover urgent needs in the acute phase of an emergency during which population is not able to cook due to a lack of access to basic facilities (clean water, cooking equipment, etc.). Their use is also extended to a complement food ration (such as snacks) to provide vitamins and minerals in regions/population where diet is subject to nutritional deficiencies. HEB can also be used to prevent micronutrient deficiency in young and school age children.

Nutritional composition per 100g of product:

Moisture content: 4.5% maximum

Nutritional value: it shall contain the following nutritional value per 100g dry matter:

Energy: 450 kcal minimum

Protein: 10.0-15.0g (N x 6.25)

Fat: 15.0g minimum

Sugar (total): 10.0-15.0g

Fiber (crude): 2.3g maximum

Ash (total): 3.5g maximum

Vitamin and Mineral content per 100g finished product:

Vitamin A as Retinol: 500 mcg as palmitate/acetate CWS

Vitamin B1: 0.9mg as thiamine mononitrate



Vitamin B2: 0.9mg as riboflavin
Niacin: 8mg as nicotinamide
Pantothenic acid: 4mg as calcium d-pantothenate
Vitamin B6: 1mg as pyridoxine hydrochloride
Folic acid: 180mcg as folic acid
Vitamin B12: 1.8mcg as cyanocobalamin
Biotin: 20mcg
Vitamin D: 5mcg as cholecalciferol CWS
Vitamin E: 7mg as alpha or dl- tocopherol CWS
Calcium: 250mg as calcium carbonate
Phosphorus 167mg
Iron: 10 mg as ferrous fumarate
Zinc: 8mg
Iodine: 120mcg as potassium iodate

Technical Specifications

Moisture content: 4.5% maximum
Nutritional value: value per 100g dry matter:
Energy: 450kcal minimum
Protein: 10.0-15.0g
Fat: 15.0g minimum
Sugar (total): 10.0-15.0g
Fiber (crude): 2.3g maximum
Ash (total): 3.5 g. maximum