

Product Information

– for professionals only –



BiCal

In Short

- BiCal is an electrolyte defined, protein free and easily soluble carbohydrate-fat mixture for energy fortification with carbohydrate (maltodextrin) and fat in powder form – Food for Special Medical Purposes
- for use in the dietary management of disease related energy malnutrition
- suitable from 1 year of age
- 325 g tin

Product profile

BiCal is an electrolyte defined, protein free, easily soluble carbohydrate-fat mixture in powder form.

BiCal is suitable for use in the dietary management of disease related energy malnutrition – from 1 year of age.

It provides high energy in form of easily digestible carbohydrate and high quality vegetable oils. The oils used are characterized by a high proportion in monounsaturated fatty acids and they contain all those polyunsaturates necessary for nutrition - especially the two essential fatty acids linoleic acid (ω -6) and α -linolenic acid (ω -3).

BiCal

- > has a low osmotic effect
- > has no thickening effect
- > is of pure plant origin, since derived from corn starch (GMO-free) and vegetable oils, vegan
- > is gluten-free
- > is free of fructose, lactose, galactose, sucrose and protein
- > is free of fibre
- > is strictly low in sodium, low in electrolytes
- > is odourless, almost bland-tasting and low in sweetness
- > is stable when baked or boiled
- > is easily soluble in drinks, cremes, mueslis, paps, custard, soups and pureed food
- > is suitable for tube feeding – for enteral use only.

Important notice: Must only be used under medical supervision. Not for use as a sole source of nutrition. Only for people from 1 year of age with proven disease related energy malnutrition. For enteral use only!

Indication

♦ Energy-enriched diets

Enhanced energy supply in form of easily digestible carbohydrate and fat:

- > pre- and post-operatively for improvement of the nutritional status
- > short-bowel syndrome, cystic fibrosis or anorexia.

♦ Carbohydrate-fat substitution

- > in case of energy malnutrition with concurrent fructose- or lactose-malabsorption
- > under low-fibre diet
- > reintroduction of diet after fasting.

♦ Elemental diets

Use for example in maldigestion and malabsorption

- > Crohn's disease, ulcerative colitis, cystic fibrosis, coeliac disease or short-bowel syndrome
- > post-operative nutrition, tumour cachexia or radiation treatment, AIDS.

♦ Liquid food and tube feeding

In diseases where normal food uptake is difficult, impossible or inefficient, such as post-operative nutrition.

♦ Protein reduced and/or electrolyte defined diets

- > for securing energy supply to avoid gluconeogenesis from glucogenic amino acids in case of renal failure, phenylketonuria or urea cycle disorders
- > low potassium, energy-rich supplement in dialysis.

Dosage and Usage

A diet plan should, in consideration of the individual energy and fat requirements,

establish the daily amount of BiCal. Ideally the daily dosage should be spread over several meals.

Preparation

♦ Fortification of foods and drinks

BiCal can be added to a wide variety of foods and drinks.

BiCal is easily soluble in drinks, cremes, mueslis, paps, custard, soups and pureed food.

Food and drinks should always be prepared freshly.

We recommend to add

- > 20 g to 100 ml drinking water.

(The scoop enclosed in the tin measures approx. 6 g BiCal when levelled.)

NUTRITION INFORMATION

BiCal 100 g 20 g

Energy			
	kJ	2175	435
	kcal	520	104

Fat	g	27	5,4
-----	---	----	-----

of which

saturates	g	10	2
-----------	---	----	---

mono-unsaturates	g	12	2,4
------------------	---	----	-----

polyunsaturates	g	5	1
-----------------	---	---	---

Carbohydrate	g	69	14
--------------	---	----	----

of which sugars	g	4	0,9
-----------------	---	---	-----

Glucose	g	0,7	0,14
---------	---	-----	------

Maltose and Isomaltose	g	3,5	0,7
------------------------	---	-----	-----

higher Glucose Polymers	g	65	13
-------------------------	---	----	----

Fructose	g	0	0
----------	---	---	---

Galactose	g	0	0
-----------	---	---	---

Lactose	g	0	0
---------	---	---	---

Sucrose	g	0	0
---------	---	---	---

Fibre	g	0	0
-------	---	---	---

Protein	g	<0,1	<0,1
---------	---	------	------

Salt	g	<0,1	<0,1
------	---	------	------

Minerals

Sodium	mg	<30,0	<6,0
--------	----	-------	------

Potassium	mg	1	0,2
-----------	----	---	-----

Chloride	mg	5	1
----------	----	---	---

Calcium	mg	1	0,2
---------	----	---	-----

Phosphorus	mg	9	1,8
------------	----	---	-----

Osmolality

The standard solution acts as hypotonic in the GI-tract.

Osmolality

BiCal (g)	Water (ml)	Osmolality (mosmol/kg drinking water)
20	100	134
13	200	32

INGREDIENTS

Maltodextrin, vegetable oils (palm oil, rape seed oil, sunflower oil), emulsifier: E 472c & sunflower lecithin, antioxidant: E 304 & E 306.

Important notice

BiCal contains easily digestible carbohydrates.
In case of impaired glucose tolerance use only under strict metabolic control.

When taking pancreatic enzymes please consider:
Per 1 g dietary fat 2,000 IU of **pancreatic enzymes** are required.

Example:

20 g BiCal $\triangleq$ 5 g fat
 $\triangleq$ 10.000 IE pancreatic enzymes

Delivery Unit	2 x 325 g = 650 g tin
Article Number	xx-002-20031
Delivery to	Wholesalers, pharmacies, clinics
Storage	Store in a cool, dry place.