Diben – The perfect fit

High MUFA *tube feed* for long or short term dietary management of patients with

- Diabetes mellitus
- Glucose intolerance

Features and Benefits

- MUFA* rich for superior glycaemic control compared with high CHO▲ diets
- Fructose and starch for low glycaemic index, reduced blood glucose levels and insulin requirements[1)]
- High fibre for healthy gut function[2)] and to slow down glucose absorption
- Fish oil to lower serum triglycerides[3)] and to reduce cardiovascular risks[4)]
- High in chromium as a glucose tolerance co-factor for improved insulin sensitivity[5)]
- High in antioxidant vitamins and flavonoids which counteract oxidative stress and prevent glycation of proteins[6)]
- One daily 1500 ml EasyBag contains all essential nutrients in 1350 kcal
- 500 ml, 1000 ml and 1500 ml EasyBag, 500 ml glass bottle

ENTERAL NUTRITION

Fresenius Kabi

Caring for Life

Diben

Nutritional Information

Average content per 100 ml

Caloric value		**380 kJ (= 90 kcal)**
Protein (18 Energy %)		4.0 g
Carbohydrates (37 Energy %)		8.3 g
of which starch	6.3 g	
of which sugar substitute fructose	1.6 g	
of which lactose	≤ 0.02 g	
Bread Units		0.7 BU
Carbohydrate Units		0.8 CU
Fat (45 Energy %)		4.5 g
of which saturated fatty acids	0.5 g	
of which monounsaturated fatty acids	3.2 g	
of which polyunsaturated fatty acids	0.8 g	
of which cholesterol	≤ 4.0 mg	
Fibre		2 g
Water		87 ml
Osmolarity		235 mosmol/l
Osmolality		270 mosmol/kg H_2O

Vitamins and other* nutrients:

Vit. A	70 µg	Vit. B_6	0.16 mg
β-Carotene	670 µg	Vit. B_{12}	0.27 µg
Vit. D_3	1.0 µg	Pantothenic acid	0.47 mg
Vit. E	6.7 mg	Biotin	5 µg
Vit. K_1	6.7 µg	Folic acid	27 µg
Vit. B_1	0.13 mg	Vit. C	17 mg
Vit. B_2	0.17 mg	Choline*	36.7 mg
Niacin	1.6 mg	Flavonoids*	20 mg
Caffeine	appr. 3 mg		

Minerals and trace elements:

Sodium	76.6 mg	Copper	130 µg
Potassium	130.3 mg	Manganese	0.27 mg
Chloride	118.2 mg	Iodide	13.3 µg
Calcium	80 mg	Fluoride	0.13 mg
Magnesium	28 mg	Chromium	26.7 µg
Phosphorus	47 mg	Molybdenum	10 µg
Iron	1.33 mg	Selenium	6.67 µg
Zinc	1.2 mg		

Carbohydrate Composition g/100 ml

Glucose	0.03	Lactose	≤ 0.02
Fructose	1.57	Oligosaccharides and polysaccharides	0.35
Maltose	0.01	Starch	6.31
Saccharose	0.06		

Fatty Acid Profile g/100 ml

Palmitic acid	0.25
Stearic acid	0.17
Oleic acid	3.16
Linoleic acid	0.56
α-Linolenic acid	0.01
ω-6/ω-3 fatty acids	3:1

▲Carbohydrates
* monounsaturated fatty acids

Amino Acid Pattern g/100 ml

Indispensable (essential)	
Lysine	0.34
Threonine	0.18
Methionine	0.12
Phenylalanine	0.23
Tryptophan	0.06
Valine	0.29
Leucine	0.42
Isoleucine	0.20
Total	**1.84**

Conditionally indispensable	
Tyrosine	0.24
Cysteine	0.01
Histidine	0.16
Arginine	0.16
Glutamine	0.44
Total	**1.01**

Dispensable (non essential)	
Glycine	0.08
Alanine	0.13
Proline	0.48
Serine	0.24
Glutamic acid	0.54
Aspartic acid and Asparagine	0.29
Total	**1.76**

Ingredients

Water, modified starch, milk protein, vegetable oils, fructose, inulin, oat fibre, resistant starch, fish oil, minerals, maltodextrin, natural flavouring, emulsifiers (E 322, E 471), choline hydrogen tartrate, acid regulators (E 170, E 530), vitamins, stabilizer (E 401), green tea extract, trace elements.

Prescribing Information

Food for special medical purposes:
High in monounsaturated fatty acids and high in ω-3-fatty acids from fish oil, carbohydrate modified with starch and fructose, enriched with the antioxidants vitamin C, vitamin E, β-carotene and flavonoids; also enriched with the glucose tolerance cofactor chromium, rich in dietary fibre; clinically free of lactose, low in cholesterol, gluten free, low in sodium.

Intended use:
Tube feed for the dietary management of diabetes mellitus or otherwise impaired glucose tolerance.

Dosage:
Dosage for complete nutrition ≥1.5 l/day. Increase slowly when commencing tube feeding.

Important directions for use:
Must be used under medical supervision. Can be used for total or supplementary nutrition. Monitoring of adequate fluid supply is mandatory. Diabetic therapies should be adjusted according to the results of regular blood glucose monitoring. Not suitable for infants under 1 year.

Storage:
Store at room temperature (not < 15° C).
Do not use if bag is damaged or swollen or content is coagulated.
Shake well before use!

Pump assisted tube feeding is recommended.

References:
1) Haslbeck M, et al. Akt Ernähr Med 1995; 20: 215-220
2) DACH: Referenzwerte für die Nährstoffzufuhr, 2000
3) Friedberg CE, et al. Diabetes Care 1998;21(4): 494-499.
4) GISSI – Prevenzione Investigators. The Lancet 1999;354:447-455.
5) Anderson RA. J Am Coll Nutrition 1998; 17 (6): 548-555
6) Cunningham JJ. J Am Coll Nutrition 1998; 17 (1): 7-10

Fresenius Kabi
Caring for Life

Fresenius Kabi Deutschland GmbH
61346 Bad Homburg v.d.H.
Germany
Telephone: +49 (0) 61 72 / 686-0
Telefax: +49 (0) 61 72 / 686-26 13
enteral.nutrition@fresenius-kabi.com
www.fresenius-kabi.com

(08/03)

Diben DRINK

The perfect fit

High MUFA *sip feed* for long or short term dietary management of patients with

- Diabetes mellitus
- Glucose intolerance

at risk of malnutrition

Features and Benefits

- MUFA* rich for superior glycaemic control compared with high CHO▲ diets
- Fructose and starch for low glycaemic index, reduced blood glucose levels and insulin requirements[1)]
- High fibre for healthy gut function[2)] and to slow down glucose absorption
- High in chromium as a glucose tolerance co-factor for improved insulin sensitivity[3)]
- High in antioxidant vitamins and flavonoids which counteract oxidative stress and prevent glycation of proteins[4)]
- 3 delicious flavours for improved patient compliance:
  Forest Berries, Caramel, Cappuccino
- Available in easy-to-use 200 ml tetrabrik®

ENTERAL NUTRITION

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Caring for Life

Diben DRINK

Nutritional Information

Average content per 100 ml

Caloric value		**380 kJ (= 90 kcal)**
Protein (18 Energy %)		4.0 g
Carbohydrates (37 Energy %)		8.3 g
of which starch	5.7 g	
of which sugars	2.3 g	
of which sugar substitute fructose	2.1 g	
of which lactose	≤ 0.01 g	
Bread Units		0.7 BU
Carbohydrate Units		0.8 CU
Fat (45 Energy %)		4.5 g
of which saturated fatty acids	0.4 g	
of which monounsaturated fatty acids	3.2 g	
of which polyunsaturated fatty acids	0.9 g	
of which cholesterol	≤ 1.0 mg	
Fibre		2 g
Water		87 ml
Osmolarity		280 mosmol/l
Osmolality		330 mosmol/kg H_2O

Vitamins and other* nutrients:

Vit. A	108 µg	Vit. B_6	0.3 mg
β-Carotene	670 µg	Vit. B_{12}	0.5 µg
Vit. D_3	1.8 µg	Pantothenic acid	1.1 mg
Vit. E	6.7 mg	Biotin	6.7 µg
Vit. K_1	18 µg	Folic acid	45 µg
Vit. B_1	0.2 mg	Vit. C	17 mg
Vit. B_2	0.3 mg	Choline*	20 mg
Nicacin	2.7 mg	Flavonoids*	20 mg
Caffeine	2.75 mg[a]		1.5 mg[b]

Minerals and trace elements:

Sodium	77 mg	Copper	270 µg
Potassium	130 mg	Manganese	0.36 mg
Chloride	118 mg	Iodide	27 µg
Calcium	80 mg	Fluoride	0.18 mg
Magnesium	28 mg	Chromium	27 µg
Phosphorus	47 mg	Molybdenum	13.5 µg
Iron	1.8 mg	Selenium	9 µg
Zinc	1.35 mg		

Carbohydrate Composition g/100 ml

Glucose	0.01	Lactose	0.01
Fructose	2.03[a]/2.10[b]	Oligosaccharides and polysaccharides	0.43
Maltose	0.01	Starch	5.73
Saccharose	0.12[a]/0.06[b]		

Fatty Acid Profile g/100 ml

Palmitic acid	0.19
Stearic acid	0.17
Oleic acid	3.21
Linoleic acid	0.57
α-Linolenic acid	0.20
ω-6/ω-3 fatty acids	3:1

▲ Carbohydrates, [a] Cappuccino, [b] Forest Berries, Caramel
* monounsaturated fatty acids

Amino Acid Pattern g/100 ml

Indispensable (essential)	
Lysine	0.34
Threonine	0.18
Methionine	0.12
Phenylalanine	0.22
Tryptophan	0.06
Valine	0.31
Leucine	0.43
Isoleucine	0.23
Total	**1.89**

Conditionally indispensable	
Tyrosine	0.23
Cysteine	0.02
Histidine	0.14
Arginine	0.16
Glutamine	0.44
Total	**0.99**

Dispensable (non essential)	
Glycine	0.09
Alanine	0.14
Proline	0.46
Serine	0.27
Glutamic acid	0.50
Aspartic acid and Asparagine	0.31
Total	**1.77**

Ingredients

Water, modified starch, milk protein, vegetable oils, fructose, soyapolysaccharides, inulin, maltodextrin, flavourings, minerals, emulsifiers (E 322, E 471), choline hydrogen tartrate, vitamins, acid regulators (E 330, E 530), green tea extract, sweeteners (sodium saccharine, sodium cyclamate), trace elements.

Prescribing Information

Food for special medical purposes:
Disease specific nutritionally complete sip feed high in monounsaturated fatty acids, carbohydrate modified with starch and fructose, enriched with the antioxidants vit. C, E, β- carotene, flavonoids and the glucose tolerance cofactor chromium. Rich in dietary fibre, gluten-free and clinically free from lactose. With sweeteners.

Intended use:
For the dietary management of patients at risk of malnutrition with diabetes mellitus or otherwise impaired glucose tolerance.

Dosage:
For complete nutrition: ≥ 7–8 cartons à 200 ml = 1260 kcal–1440 kcal
For supplementary nutrition: ≥ 2–3 cartons à 200 ml = 360 kcal–540 kcal
3 cartons meet the average requirement for vitamins and trace elements
As in-between-meal: 1 carton à 200 ml = 180 kcal

Important notes:
Must be used under medical supervision. For total or supplementary nutrition. Diabetic therapies should be adjusted according to the results of regular blood glucose monitoring.

Storage:
Store at room temperature (not < 15°C). Opened containers may be stored in a refrigerator for up to 24 h.

Usage guide:
Shake well before use. Drink slowly! Can be sipped directly from the tetrabrik® with the straw attached.

Contra Indications:
- Not suitable in all conditions where enteral feeding is not permitted – such as: ileus, gut atonia, severe gut ischemia and others
- Not suitable for severe organic disease – such as insufficiency of liver and kidney, severe forms of maldigestion and malabsorption
- Not suitable for congenital inability to metabolise nutrients contained in **Diben DRINK**
- Not suitable for infants under 1 year of age

References:

1) Haslbeck M, et al. Akt Ernähr Med 1995; 20: 215-220
2) DACH: Referenzwerte für die Nährstoffzufuhr, 2000
3) Anderson RA. J Am Coll Nutrition 1998; 17 (6): 548-555
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(08.03)