



- ZeroVIL minis are a food for special medical purposes for use in the dietary management of disorders in metabolism of branched chain amino acids, e.g. Maple Syrup Urine Disease (MSUD)
- protein supplement in tablet form free of Valine, Isoleucine and Leucine (ZeroVIL) – for children from 3 years of age, adolescents and adults
- contain pure L-amino acids, vitamins, minerals and trace elements in adequate amounts
- in convenient sachets: 1 sachet  $\hat{=}$  12 tablets  $\hat{=}$  5 g protein equivalent
- high in protein – low in energy – neutral in taste and smell – easy application – ready for “to go”
- can easily be exchanged with products of the ZEROVIL-SYSTEM

### Definition and Indication

ZeroVIL minis are a mixture of pure L-amino acids free of Valine, Isoleucine and Leucine (ZeroVIL), containing balanced amounts of vitamins, minerals and trace elements.

ZeroVIL minis are a protein supplement in tablet form. The tablets are ready for application, no preparation necessary. ZeroVIL minis can be consumed discreetly, the product does not draw attention to the individual's diet – a big issue in compliance. The tablets allow a tasteless intake of the amino acid mixture. ZeroVIL minis offer more flexibility, e.g. concerning intake outside the home and with regard to a wider choice of drinks suitable for intake.

Since packed in sachets the daily taking is especially easy: 1 sachet  $\hat{=}$  12 tablets  $\hat{=}$  5 g protein.

ZeroVIL minis are a food for special medical purposes, suitable as a protein supplement for use in the dietary management of disorders in metabolism of branched chain amino acids, e.g. Maple Syrup Urine Disease (MSUD) in children from 3 years of age, adolescents and adults.

ZeroVIL minis have been developed for an intake of the protein supplement high in protein and low in energy.

### Dosage and Directions for Use

The daily dosage of ZeroVIL minis depends on age, body weight and individual medical condition/ protein tolerance and should be re-examined and adjusted in accordance with the results of regular monitoring.

The daily amount of ZeroVIL minis should be taken in 3 to 5 single portions with sufficient quantity of liquid, at best along with pre-calculated amounts of food.

### Administration

ZeroVIL minis should always be swallowed as whole tablets together with a sufficient quantity of liquid. Tablets should not be dissolved in water or other drinks. We recommend to take the tablets in an upright position. Once sachet is opened, the tablets should be taken within the next 6 hours.

**Note:** The tablets are covered with a neutral tasting coating. If they were kept in the mouth for too long, this water soluble film would dissolve and the typical taste of an amino acid mixture would develop.

### The Nutrients in ZeroVIL minis

#### Protein

The protein compound consists of highly purified L-amino acids and contains balanced amounts of indispensable (with the exception of Valine, Isoleucine and Leucine), conditionally indispensable and dispensable amino acids.

#### Amino acid pattern per 100 g product

L-Alanine	4,9 g	L-Lysine	4,8 g
L-Arginine	4,3 g	L-Methionine	1,6 g
L-Aspartic acid	10,6 g	L-Phenylalanine	3,1 g
L-Cystine	2,7 g	L-Proline	8,4 g
L-Glutamic acid	6,3 g	L-Serine	5,4 g
L-Glutamine	3,5 g	L-Threonine	3,9 g
Glycine	5,3 g	L-Tryptophan	1,5 g
L-Histidine	2,1 g	L-Tyrosine	3,6 g
L-Isoleucine	- g	L-Valine	- g
L-Leucine	- g		

ZeroVIL minis substitute that part of the protein in the diet which may not be taken up from natural food sources.

#### Carbohydrate and Fat

ZeroVIL minis contain no carbohydrate and only a small amount of fat. Thus the intake of both nutrients can be covered by natural foods in line with a dietary schedule.

#### Vitamins, Minerals and Trace elements (Micronutrients)

The intake of natural protein is restricted in the dietary management of disorders in metabolism of branched chain amino acids, e.g. Maple Syrup Urine Disease (MSUD). Therefore many natural sources of essential micronutrients are lacking. This has been considered in the development of the ZeroVIL minis-formulation, in line with current reference values.

**NUTRITION INFORMATION**

		100 g	12 tablets (1 sachet)
ZeroVIL minis			
<b>Energy</b>	kJ	1188	100
	kcal	282	24
<b>Fat</b>	g	1	0,08
of which saturates	g	1	0,08
<b>Carbohydrate</b>	g	0	0
of which sugars	g	0	0
<b>Fibre</b>	g	17	1,4
<b>Protein eqv.</b>	g	60	5
<b>Amino acids</b>	g	72	6
<b>Salt</b>	g	0	0

				g protein
<b>Vitamins</b>				
Vitamin A	µg	704	59	12
Vitamin D3	µg	18	1,5	0,3
Vitamin E	mg	16	1,3	0,27
Vitamin K1	µg	60	5	1
Vitamin C	mg	80	7	1,3
Thiamin (Vit. B1)	mg	2	0,17	0,035
Riboflavin (Vit. B2)	mg	2,4	0,2	0,04
Niacin	mg	26	2	0,4
Vitamin B6	mg	2,7	0,23	0,045
Folic acid	µg	241	20	4
Vitamin B12	µg	5	0,5	0,09
Biotin	µg	240	20	4
Pantothenic acid	mg	11	1	0,2
<b>Minerals</b>				
Potassium	mg	1500	126	25
Calcium	mg	1641	138	27
Phosphorus	mg	801	67	13
Magnesium	mg	369	31	7
<b>Trace elements</b>				
Iron	mg	22	1,8	0,36
Zinc	mg	22	1,8	0,36
Copper	mg	2,4	0,2	0,04
Manganese	mg	5	0,4	0,08
Fluoride	mg	0,9	0,08	0,015
Selenium	µg	72	6	1,2
Chromium	µg	120	10	2
Molybdenum	µg	90	8	1,5
Iodine	µg	270	23	4,5

**FURTHER NUTRITION INFORMATION**

L-Carnitine	mg	54	5	0,9
Choline	mg	240	20	4
myo-Inositol	mg	282	24	5
Taurine	mg	60	5	1

Delivery Unit      box à 35 sachets à 12 tablets = 294 g

Article Number      xx-001-30660

Delivery to      Pharmacies, clinics

Storage      Store in a cool, dry place.