

COMIDA MSUD A FORMULA



0 – 1 year
 Food for Special Medical Purposes
 For infants with disorders in branched chain amino acid metabolism

- ü supplies a isoleucine, leucine and valine free amino acid mixture of high biological value
- ü contains Lactose and LCP, free from Sucrose
- ü provides vitamins, minerals, trace elements according to international standards
- ü is simple to calculate and can be prepared easily (measuring scoop in the can)
- ü can easily be combined with breast milk or standard infant formula
- ü is hygienically safe and convenient

DESCRIPTION:

comida-MSUD A formula is a special infant formula, based on an amino acid mixture free from isoleucine, leucine and valine. Its amino acid profile is close to that of human milk protein (except for the branched chain amino acids). comida-MSUD A formula contains long chain polyunsaturated fatty acids (LCP), particularly important for a healthy development of newborns and young infants. comida-MSUD A formula is supplemented with vitamins, minerals and trace elements according to current international recommendations.

INDICATION:

For dietary treatment in infants with disorders in metabolism of branched chain amino acids, such as e.g. Maple Syrup Urine Disease (MSUD).

DIRECTION OF USE:

The daily amount of comida-MSUD A formula needed to supplement the daily protein requirements (other than isoleucine, leucine and valine), depends on age, body weight and individual tolerance for these branched chain amino acids. The dose of comida-MSUD A formula is to be determined by a physician and must be adjusted regularly.

The daily amount required should be divided into 3 to 5 single portions and should be taken mixed with calculated amounts of other food (e.g. breast milk or infant formula).

Diets with comida-MSUD A formula must contain adequate amounts of energy, essential fatty acids, isoleucine, leucine and valine to meet daily requirements.

PREPARATION:

Preparation of a bottle-feed of comida-MSUD A formula is as easy as with any infant formula: Just pour required amount of hot (50°C), previously boiled water into a feeding bottle, add the measured amount of comida-MSUD A formula (scoop provided), close the bottle and shake well. Before feeding check the correct temperature.

Prepare bottle feed always fresh and discard unfinished feeds!
 Please monitor dental care, especially before bedtime!

IMPORTANT NOTICE:

- must be used under medical supervision
- for infants with disorders in branched chain amino acid metabolism
- not suitable as sole source of nutrition
- not to be used by individuals without disorders in branched chain amino acid metabolism
- not suitable for parenteral use
- not to be used by individuals with lactose intolerance

PREPARATION TABLE:

drinking volume	water	comida-MSUD A formula		protein content
ml	ml	g	= number of scoops *	g protein-equivalent
35	30	4,3	1	0,51
100	90	13	3	1,5
200	180	26	6	3,1

* 1 scoop = approx. 4,3 g comida-MSUD A formula

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INGREDIENTS:

Lactose, Vegetable oils, Maltodextrin, Starch, L-Lysine-L-Glutamate, L-Lysine-L-Aspartate, L-Arginine-L-Aspartate, L-Proline, tri-Calcium phosphate, L-Serine, L-Threonine, Emulsifier E472c, tri-Potassium citrate, L-Alanine, Glycine, L-Tyrosine, L-Phenylalanine, L-Glutamic acid, L-Histidine, L-Cystine, L-Glutamine, L-Tryptophan, L-Methionine, Sodium chloride, Potassium chloride, ARA-rich oil from *Mortierella alpina*, Magnesium carbonate, Choline bitartrate, DHA-rich oil from the microalgae *Schizochytrium* sp., di-Calcium phosphate, Vitamins (A, D, E, K, C, B1, B2, Niacin, B6, Folic acid, Pantothenic acid, B12, Biotin), Inositol, L-Carnitine-L-Tartrate, Taurine, Iron-II-sulfate, Zinc sulfate, Emulsifier lecithine, Antioxidants Tocopherol-rich extract and Ascorbyl palmitate, Manganese sulfate, Copper sulfate, Sodium fluoride, Potassium iodide, Sodium molybdate, Chromium-III-chloride, Sodium selenite.

COMPOSITION:

Nutrition Facts		per 100 g	per 100 ml**
Energy	kJ	2113	275
	kcal	505	66
Protein equivalent *	g	11,8	1,5
Carbohydrates	g	52,6	6,8
of which	- Lactose	g 32,2	4,2
	- Starch	g 5,6	0,7
Fat	g	27,4	3,6
of which	- saturated	g 10,3	1,3
	- monounsaturated	g 12,9	1,7
	- polyunsaturated	g 4,2	0,6
	- Linoleic acid	g 3,5	0,5
	- α -Linolenic acid	g 0,55	0,07
	Linoleic acid / α -Linolenic acid	7	7
	- Arachidonic acid	mg 115	15
	- Docosaheptaenoic acid	mg 65	8,5
Amino acids	g	14,2	1,9
L-Alanine	g	0,82	0,11
L-Arginine	g	0,89	0,12
L-Aspartic acid	g	1,6	0,21
L-Cystine	g	0,44	0,06
L-Glutamic acid	g	1,5	0,20
L-Glutamine	g	0,40	0,05
Glycine	g	0,77	0,10
L-Histidine	g	0,48	0,06
L-Isoleucine	g	nil added	
L-Leucine	g	nil added	
L-Lysine	g	2,0	0,25
L-Methionine	g	0,32	0,04
L-Phenylalanine	g	0,68	0,09
L-Proline	g	1,3	0,17
L-Serine	g	1,0	0,13
L-Threonine	g	0,92	0,12
L-Tryptophan	g	0,33	0,04
L-Tyrosine	g	0,73	0,10
L-Valine	g	nil added	
Taurine	mg	36	4,7
L-Carnitine	mg	26	3,4

Minerals		per 100 g	per 100 ml**
Sodium	mg	123	16
Potassium	mg	474	62
Chloride	mg	336	44
Calcium	mg	496	65
Phosphorus	mg	267	35
Magnesium	mg	63,0	8,2
Iron	mg	6,1	0,79
Trace elements			
Zinc	mg	5,3	0,68
Copper	mg	0,35	0,05
Iodine	μ g	84,0	11
Chromium	μ g	10	1,3
Fluoride	μ g	170	22
Manganese	mg	0,4	0,05
Molybdenum	μ g	25	3,2
Selenium	μ g	15	2,0
Vitamins			
Vitamin A	μ g	801	104
Vitamin D	μ g	10	1,3
Vitamin E	mg	9,0	1,2
Vitamin K	μ g	22	2,9
Vitamin C	mg	80	10
Vitamin B1	mg	0,42	0,06
Vitamin B2	mg	0,90	0,12
Niacin	mg	5,4	0,70
Vitamin B6	mg	0,51	0,07
Folic acid	μ g	63,0	8,2
Pantothenic acid	mg	3,6	0,46
Vitamin B12	μ g	1,2	0,15
Biotin	μ g	12	1,6
Choline	mg	69	9,0
Inositol	mg	46	6,0
* conversion: 1 g protein = 1,2 g amino acids = 17 kJ = 4 kcal			
** standard dilution: 13,0 g in 90 ml water			