

Serin

In Short

- Serin is a Food for Special Medical Purposes (FSMP) for use in the dietary management of rare metabolic disorders, e.g. GRIN2B-associated Encephalopathy or Serine Deficiency Disorders, when supplementation with L-Serine is indicated
- L-Serine – in powder form
- sweet-tasting powder
- suitable for tube feeding
- 100 g tin

Product Profile

Serin is highly concentrated L-Serine in powder form.

Serin is not fortified with micro-nutrients.

associated Encephalopathy, a congenital neurotransmitter disorder caused by NMDA receptor deficiency (ionotropic glutamate receptor NMDA type subunit 2B dysregulation).

Administration

Serin should always be taken along with other foods. Serin is also suitable for tube feeding.

Dosage The daily dosage depends on age, body weight and individual medical condition and is, as the right time for the daily intake, determined under medical supervision.

Preparation

Serin may be stirred into liquids, such as water, (diluted) juice or milk, it should be drunk quickly. Serin may also be prepared with fruit puree and other foods.

Always weigh the amount of Serin needed. Always prepare freshly.

Important Notice Must only be used under medical supervision. Not for use as a sole source of nutrition. For enteral use only. Only for people with rare metabolic disorders, e.g. GRIN2B-associated Encephalopathy or Serine Deficiency Disorders. Serin is not suitable for infants in the first year of life.

Function Serin is suitable for prevention or correction of disease related L-Serine deficiencies.

References:

- 1) van der Crabben, SN et al. (2013) An update on serine deficiency disorders. *J Inherit Metab Dis* 36:613–619. doi.org/10.1007/s10545-013-9592-4.
- 2) van Konijnenburg et al. (2021) Treatable inherited metabolic disorders causing intellectual disability: 2021 review and digital app; *Orphanet Journal of Rare Diseases* 16(1):170. doi: 10.1186/s13023-021-01727-2.

Indication Serin is used for the dietary management of rare metabolic disorders, when supplementation with L-Serine is indicated. These include Serine Deficiency Disorders (1), e.g.

- 3-phosphoglycerate dehydrogenase deficiency
- L-serine biosynthesis phosphoserine aminotransferase deficiency (rare)
- phosphoserine phosphatase deficiency (very rare).

The review by Hoytema van Konijnenburg (2) also mentions the mitochondrial aspartate aminotransferase deficiency and seryl-tRNA synthetase 1 deficiency as indications. Likewise, L-serine is used for the dietary management of GRIN2B-

NUTRITION INFORMATION		
Serin		
	100 g	
Energy	kJ	1417
	kcal	333
Fat	g	0
of which saturates	g	0
Carbohydrate	g	0
of which sugars	g	0
Protein eqv.	g	83
of which L-Serine	g	100
Salt	g	0

INGREDIENTS

L-serine.

Delivery Unit	tin 100 g
Article Number	xx-001-98014
Delivery to	Pharmacies, clinics
Storage	Store in a cool, dry place.



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