

MODEL

Model Kramp GmbH

Otto-Hahn-Straße 41

63456 Hanau

Tel. +49 6181-6750-0

Hepa-Merz 3000 Granulat

Indonesien ID

GA

Job No.: me4016326

Size: 148 x 210 mm (w x h)

MN 67719-660009863MC 0000

AM 45123MZ/AZ 0000

Typestyle: Helvetica BG

Created at: 02.09.2021

Operator: ul

1. AC: 07.09.2021 mf

2. AC: 10.11.2021 ul

3. AC: 01.02.2022 ul

4. AC: 07.02.2022 mf

5. AC:

6. AC:

7. AC:

8. AC:

Type size: 6,8 pt

Black

Stanze

Scale

0

10

20

30

40

50

60

70

80

90

100

110

120

130

measured in mm

reading direction

Hepa-Merz[®] GRANULATE

L-ORNITHINE-L-ASPARTATE

3 g/5 g, Granules for oral solution

COMPOSITION

Each sachet with 5 g contains 3.0 g L-ornithine-L-aspartate.

Excipients: Citric acid, saccharin sodium, sodium cyclamate, povidone 25, fructose, flavourings, orange yellow S (E110).

INDICATIONS

Treatment of concomitant disease and sequelae due to impaired hepatic detoxification activity (e.g.in cirrhosis of the liver) with the symptoms of latent and manifest hepatic encephalopathy.

POSOLOGY AND METHOD OF ADMINISTRATION

Granules for oral solution.

The dissolved contents of 1–2 sachets of Hepa-Merz granules are taken up to 3 times daily.

Hepa-Merz granules are dissolved in plenty of fluid (e.g. a glass of water, tea or juice) and taken with or after meals.

The experiences on the use of the drug in children are limited.

CONTRAINDICATIONS

Severely impaired renal function (renal insufficiency). A serum creatinine value over 3 mg/100 ml can be used as a guideline value.

Hepa-Merz granules must not be taken by patients with known hypersensitivity to L-ornithine-L-aspartate, orange yellow S or any of the excipients.

WARNINGS AND PRECAUTIONS

Hepa-Merz granules contain fructose. Patients with rare hereditary problems of fructose intolerance should not take this medicine.

Hepa-Merz granules contain 1.13 g fructose per sachet (equivalent to 0.11CEU). This should be taken into account in patients with diabetes mellitus.

Any possible fructose intolerabilities should be checked by the attending physician before treatment.

Hepa-Merz granules may be harmful to the teeth (caries) in long-term use.

No data are so far available on the use of the drug in children.

INTERACTION

None known

PREGNANCY AND LACTATION

Pregnancy:

No clinical data are available relating to intake of Hepa-Merz granules during pregnancy. No exhaustive animal studies have been performed for L-ornithine-L-aspartate, to investigate its toxicity in relation to reproduction. Administration of Hepa-Merz granules during pregnancy should therefore be avoided. If, however, treatment with Hepa-Merz granules is considered necessary, careful consideration should be given to the benefit versus risk ratio.

Lactation:

It is not known whether L-ornithine-L-aspartate is excreted into the breast milk. Administration of Hepa-Merz granules should therefore be avoided during lactation. If, however, treatment with Hepa-Merz granules is considered necessary, careful consideration should be given to the benefit versus risk ratio.

EFFECTS ON ABILITY TO DRIVE AND USE MACHINES

As a result of the disease, the ability to drive and operate machinery may be impaired during treatment with L-ornithine-L-aspartate.

UNDESIRABLE EFFECTS

Very common:	(≥1/10)
Common:	(≥1/100, <1/10)
Uncommon:	(≥1/1000, <1/100)
Rare:	(≥1/10000, <1/1000)
Very rare:	(<1/10000), not known (cannot be estimated from the available data)

Gastrointestinal disorders

Nausea, vomiting, stomach ache, flatulence and diarrhoea are uncommon occurrences.

Musculoskeletal and connective tissue disorders

In very rare cases, pain in the limbs has been observed.

These undesirable effects are usually transient and do not require withdrawal of the medicine.

Orange yellow S (E110) can trigger allergic reactions.

Overdosage

So far signs of intoxication have not been observed following an overdose of L-ornithine- L-aspartate. Symptomatic treatment is recommended if overdose occurs.

MN 67719.066009863, MC 6635

reading direction

Pharmaceutical	Freigabe	Freigabe nach Korrektur	Neuvorlage nach Korrektur	Datum, Unterschrift
Produktmanager	☐	☐	☐	
Forschung u. Entwicklung	☐	☐	☐	
Arzneimittelzulassung	☐	☐	☐	
Informationsbeauftragter	☐	☐	☐	
Rechtsabteilung	☐	☐	☐	
	☐	☐	☐	

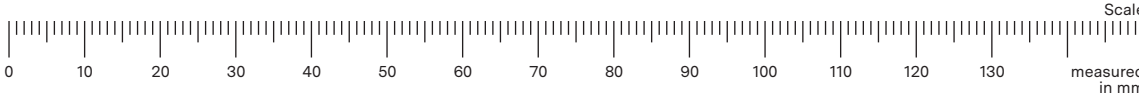
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ID : EREG100193VR12200169

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reading direction



PHARMACOLOGICAL PROPERTIES

Pharmacodynamic properties

Pharmacotheapeutic group:

Hepatotherapeutics, ATC code: A05BA

In vivo, L-ornithine-L-aspartate exerts its effects through the amino acids, ornithine and aspartate, via two key methods of ammonia detoxification: urea synthesis and glutamine synthesis.

Urea synthesis takes place in the periportal hepatocytes. In these cells, ornithine serves both as an activator of the enzymes ornithinecarbamoyltransferase and carbamoyl phosphate synthetase and also as the substrate of urea synthesis.

Glutamine synthesis is localised in the perivenous hepatocytes. Particularly under pathological conditions, aspartate and other dicarboxylates, including the metabolic products of ornithine, are absorbed into the cells and used there to bind ammonia in the form of glutamine.

Glutamate is an amino acid that binds ammonia under both physiological and patho physio logical conditions. The resulting amino acid glutamine not only represents a form for the excretion of ammonia, but also activates the important urea cycle (intercellular glutamine exchange).

Under physiological conditions, ornithine and aspartate are not limiting for urea synthesis.

Animal studies suggest that the ammoniareducing effect of L-ornithine-L-aspartate is caused by enhanced glutamine synthesis. Individual clinical studies have shown an improved branched-chain amino acid/aromatic amino acid quotient.

Pharmacokinetic properties

L-ornithine-L-aspartate is rapidly absorbed and cleaved to form ornithine and aspartate. Both amino acids have a short elimination half-life of 0.3–0.4 hours. A fraction of the aspartate is recovered in unmetabolised form in the urine.

Preclinical safety data

Preclinical data, based on safety pharmacological studies and chronic toxicity and mutagenicity studies, do not suggest any particular risk to humans following correct administration.

No studies into any carcinogenic potential have been performed.

In a dose-finding study, L-ornithine-L-aspartate was insufficiently investigated in terms of its toxicity in relation to reproduction.

STORAGE

Store below 30°C.

This product should not be used after the expiry date.

PACKAGING

Box,10 sachets containing 5 g granules

Reg. No. DK10691300222A1

KEEP OUT OF THE REACH AND SIGHT OF CHILDREN

ON MEDICAL PRESCRIPTION ONLY

HARUS DENGAN RESEP DOKTER

Manufactured by:

Klocke Pharma-Service GmbH, Appenweier, Germany

Released by:

Merz Pharma GmbH & Co. KGaA, Reinheim, Germany

Imported by:

PT Pyridam Farma Tbk, Jakarta, Indonesia



reading direction

MN 67719.660009863, MC 6636

Pharmaceutical	Freigabe	Freigabe nach Korrektur	Neuvorlage nach Korrektur	Datum, Unterschrift
Produktmanager	☐	☐	☐	
Forschung u. Entwicklung	☐	☐	☐	
Arzneimittelzulassung	☐	☐	☐	
Informationsbeauftragter	☐	☐	☐	
Rechtsabteilung	☐	☐	☐	
	☐	☐	☐	