

NOVICHEM Spółka z o.o. ul. Główna 4 41-508 Chorzów	<b>PRODUCT SPECIFICATION</b>  <b>SPK/DK/1</b>	Page/Pages: 1 of 2
		Version No.: III valid from: 01.01.2021
	<b>MAGNESIUM HYDROGEN DL-ASPARTATE TETRAHYDRATE</b>	Replaces Version: II valid from 19.07.2019
		Copy: 2

### 1. Appearance

white crystalline powder or colourless crystals

### 2. Chemical name

magnesium hydrogen dl-aspartate tetrahydrate

### 3. Chemical formula

$(C_4H_6NO_4)_2Mg \cdot 4 H_2O$

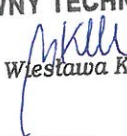

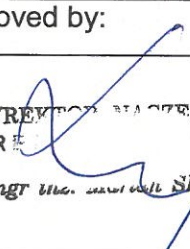
### 4. Molecular weight

360.60 g/mol

### 5. Quality requirements

#### 5.1. Physicochemical requirements

No.	PROPERTY	Requirements	Analytical Method
1.	Appearance	white crystalline powder or colourless crystals	visual examination
2.	Identification A, C, D or B	positives	A – Ph.Eur. 2.2.7 B – Ph.Eur. 2.2.24 C – DAB D – Ph.Eur. 2.3.1
3.	Appearance of 2.5% water solution	clear and colourless	Ph.Eur. 2.2.1 Ph.Eur. 2.2.2 metoda II
4.	Assay (calculated with reference to the anhydrous substance), %(w/w)	98.0 ÷ 102.0	Ph.Eur. 2.5.11
5.	pH of 2.5% water solution	5.5 ÷ 7.5	Ph.Eur. 2.2.3
6.	Water (KF), %(w/w)	18.0 ÷ 22.0	Ph.Eur. 2.5.12

Prepared by:	Checked by:	Approved by:
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Date: 31.12.2020r.	Date: 31.12.2020r.	Date: 31.12.2020r.

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7.	Related substances (TLC)	compliance test	Ph.Eur. 2.2.27
8.	Chlorides (Cl <sup>-</sup> ), ppm	≤ 200	Ph.Eur. 2.4.4
9.	Sulfates (SO <sub>4</sub> <sup>2-</sup> ), ppm	≤ 500	Ph.Eur. 2.4.13
10.	Iron (Fe <sup>3+</sup> ), ppm	≤ 30	Ph.Eur. 2.4.9
11.	Ammonium (NH <sub>4</sub> <sup>+</sup> ), ppm	≤ 200	Ph.Eur. 2.4.1

## 5.2. Microbiological requirements

1.	TAMC (total aerobic microbial count), cfu/g	≤ 10 <sup>3</sup>	Ph.Eur. 2.6.12
2.	TYMC (total combined yeast/moulds count), cfu/g	≤ 10 <sup>2</sup>	
3.	<i>Escherichia coli</i> in 1g	absence	Ph.Eur. 2.6.13

## 6. Period of validity

The product stored in accordance with item 8 meets the requirements for a period of 3 years.

## 7. Standard packaging

- unitary:

Polyethylene bag placed in a cardboard box containing 25 kg of finished product.

- summary:

Pallet wrapped with self-adhesive foil.

The labelling of each package includes the manufacturer's name, product name, net weight, batch number, date of manufacture, expiry date, information: "no special storage conditions required".

## 8. The storage conditions

In tightly sealed containers, in dry storage.

It does not require any special storage conditions.

## 9. Transport requirements

Covered means of transport.