

食品级 Food Grade 规格 Category: 0402026203

## 产品规格书 /PRODUCT DATA SHEET

## 抗坏血酸/Ascorbic acid

参考标准 Reference standard	EP/BP/USP/FCC/E300	版本 Version	2022/05
生效日期 Official date	May 1st, 2022	页码 Total page	3

#### 描述/ Description

东北制药生产的抗坏血酸的标准参考欧洲药典、英国药典、美国药典、美国食品化学法 典、欧洲食品的所有要求。

The specification of Ascorbic acid, which produced by Northeast Pharmaceutical Group Co., Ltd., is established with reference of all requirements of the European Pharmacopeia (EP), British Pharmacopoeia (BP), United States Pharmacopeia(USP), Food Chemicals Codex(FCC) and E300.

#### 产品识别/Product identification

化学名称 /Chemical names: (5R)-5-[(1S)-1,2-Dihydroxyethyl]-3,4-dihydroxyfuran-2(5H)-one 别名 /Synonyms: L-ascorbic acid; L-xylo-ascorbic acid; L-(+)-ascorbic acid; vitamin C

CAS号/CAS No.: 50-81-7

Einecs 号 /Einecs No.: 200-066-2

E号 /E No.: E300

分子式 / Molecular formula:  $C_6H_8O_6$ 

分子量 /Molecular mass: 176.1

# 标准 / Specifications

项目 /Items	要求 /Requirements	方法/Test methods
性状 /Characteristics	白色或类白色结晶性粉末或无色结晶 White or almost white, crystalline powder or colorless crystals	欧洲药典 EP
	IR:符合规定	欧洲药典 2.2.24
鉴别	/IR: Complies;	EP 2.2.24
/Identification	化学鉴别:呈正反应	美国药典专论
	/CA: Positive	USP monograph
熔点	约 190℃, 同时分解	中国药典 0612
/Melting Point	/About 190 °C, with decomposition	ChP 0612
比旋度	+20.5 ° ~ +21.5 °	欧洲药典 2.2.7
/Specific Rotation	/+20.5 ° ~ +21.5 °	EP 2.2.7
酸度	2.1~2.6 (5%水溶液)	欧洲药典 2.2.3
/Acidity (pH)	$/2.1 \sim 2.6$ (5% aqueous solution)	EP 2.2.3
酸度	2.4~2.8 (2%水溶液)	企业内控
/Acidity (pH)	/ 2.4~ 2.8 (2% aqueous solution)	In-house
含量	99.0% ~ 100.5%	欧洲药典专论

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# 抗坏血酸/Ascorbic acid

/ 99.0% ~ 100.5%	EP monograph
≤0.40%	企业内控
/≤0.40%	In-house
≤0.2%	欧洲药典专论
/≤0.2%	EP monograph
h F 0 - 0 150	0 .
	- /
1 .	-/- VIII - + + -
	欧洲药典 2.2.29
	EP 2.2.29
/ Total Impurities other than C, D: ≤0.2%	1 /
≤10ppm	企业内控
/≤10ppm	In-house
≤5ppm	欧洲药典
/≤5ppm	EP 2.2.23
≤2ppm	欧洲药典
/≤2ppm	EP 2.2.23
	企业内控
	In-house
≤2ppm	企业内控
/≤2ppm	In-house
≤1ppm	企业内控
/≤1ppm	In-house
≤0.1%	欧洲药典 2.4.14
/≤0.1%	EP 2.4.14
澄清	欧洲药典 2.2.1
/Clear	EP2.2.1
≤BY <sub>7</sub>	欧洲药典 2.2.2
/≤BY <sub>7</sub>	EP2.2.2
甲醇≤0.3%	企业内控
/ Methanol ≤0.3%	In-house
40 目筛上≤30%	
/≤30% more than 40 mesh	企业内控
	In-house
$\leq 10^3 \text{cfu/g}$	中国药典 1105
	ChP 1105
/_10 51a/6	
	≤0.40% /≤0.2%   杂质 C、D: ≤0.15% / Impurity C, D: ≤0.15%  任一非特定杂质: ≤0.10% / Unspecified Impurities: ≤0.10% 除 C、D 外总杂质: ≤0.2% / Total Impurities other than C, D: ≤0.2% ≤10ppm /≤10ppm ≤5ppm /≤5ppm ≤2ppm /≤2ppm /≤2ppm /≤2ppm /≤2ppm /≤2ppm /≤1ppm ≤1ppm /≤1ppm ≤1npm /≤1ppm ≤0.1% /≤0.1% 澄清 /Clear ≤BY7 /≤BY7  甲醇≤0.3% / Methanol ≤0.3% / Methanol ≤0.3% / 10 目筛上≤30%

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#### 抗坏血酸/Ascorbic acid

*霉菌和酵母菌总数 /The total combined yeasts and moulds count(TYMC)	≤10 <sup>2</sup> cfu/g /≤10 <sup>2</sup> cfu/g	中国药典 1105 ChP 1105
*大肠埃希菌	不得检出/g	中国药典 1106
/ Escherichia coli	Not detected /g	ChP 1106
*金黄色葡萄球菌	不得检出/g	中国药典 1106
/Staphylococcus aureus	Not detected /g	ChP 1106
*沙门菌	不得检出/10g	中国药典 1106
/Salmonella	Not detected /10g	ChP 1106

备注:上面带\*的项目为抽检。

Note:\*These items as above are sampling test.

#### 包装和贮存 /Packaging and storage

贮存:密封、遮光、非金属容器中。

Store: Preserve in tightly closed non-metallic containers from light.

包装: 25kg/箱。

Packing: Corrugated carton net weight 25kg.

复验期: 3年。 Retest date: 3 years.

# 稳定性和贮存 /Stability and storage

产品在干燥空气中相对稳定,对热敏感。产品在室温条件下,未拆封的原包装容器中可以贮存36个月。

This product is reasonably stable in air if protected from humidity, but is somewhat sensitive to heat. The product may be stored for 36 months from the date of manufacture in the unopened original container and at room temperature.

#### 使用/Uses

产品适用于食品级。

This product is especially suited for food grade.

## 遵守药典/Compendial compliance

当按照欧洲药典/英国药典、美国药典、美国化学法典、欧洲食品进行检验时, 抗坏血酸符合以上有效的概述的所有要求。

The Ascorbic acid meets all requirements of the following valid compendia when tested accordingly: EP/BP, USP, FCC, E300.

#### 安全/Safety

产品在预定用途下是安全的。采用合适的保护措施,避免吸收和吸入或直接接触灰尘。 需要全面的安全信息和必要的预防措施参考产品安全数据。

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. For full safety information and necessary precautions, please refer to the respective Material Safety Data Sheet.