



石药集团 维生药业(石家庄)有限公司
CSPC WEISHENG PHARMACEUTICAL (SHIJIAZHUANG) CO., LTD.



Certificate of Analysis

COA NO.: 14121373

Product: Ascorbic Acid

Analysis Standard: BP2014/USP37

Batch Number: 1140850163

Quantity: 3000kg

Manufacture Date: Aug. 30, 2014

Expiry Date: Aug. 29, 2017

Analysis contents	Analysis standard	Analysis results
Characteristics	White or almost white crystalline powder or colourless crystals	Pass
Identification	Positive reaction	Pass
Melting point	About 190°C	190°C
Specific rotation	+20.5°~+21.5°	+21.1°
pH	2.1~2.6	2.4
Residue on ignition	≤0.1%	0.03%
Assay	99.0%~100.5%	99.9%
Heavy metals	≤10ppm	<10ppm
Clarity of solution	Clear	Pass
Color of solution	≤BY ₇	<BY ₇
Impurity E	≤0.2%	<0.2%
Copper	≤5ppm	<5ppm
Iron	≤2ppm	<2ppm

Conclusion: The above product conforms with BP2014/USP37 standard.

QC

Rechecker

吴云燕

Writer

焦方艳

Manufacturer: CSPC Weisheng Pharmaceutical (Shijiazhuang) Co., Ltd.

ADD: NO.236 Huanghe Street High-Tech Industrial Development Zone, Shijiazhuang City,

Hebei Province, China



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Certificate of Analysis

COA NO.: 14121372

Product: Ascorbic Acid

Analysis Standard: BP2014/USP37

Batch Number: 1140850155

Quantity: 3000kg

Manufacture Date: Aug. 29, 2014

Expiry Date: Aug. 28, 2017

Analysis contents	Analysis standard	Analysis results
Characteristics	White or almost white crystalline powder or colourless crystals	Pass
Identification	Positive reaction	Pass
Melting point	About 190°C	190°C
Specific rotation	+20.5°~+21.5°	+21.0°
pH	2.1~2.6	2.4
Residue on ignition	≤0.1%	0.04%
Assay	99.0%~100.5%	99.7%
Heavy metals	≤10ppm	<10ppm
Clarity of solution	Clear	Pass
Color of solution	≤BY ₇	<BY ₇
Impurity E	≤0.2%	<0.2%
Copper	≤5ppm	<5ppm
Iron	≤2ppm	<2ppm

Conclusion: The above product conforms with BP2014/USP37 standard.

QC

Rechecker 吴云燕

Writer 焦方艳

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Certificate of Analysis

COA NO.: 14121371

Product: Ascorbic Acid

Analysis Standard: BP2014/USP37

Batch Number: 1140850173

Quantity: 3000kg

Manufacture Date: Aug. 31, 2014

Expiry Date: Aug. 30, 2017

Analysis contents	Analysis standard	Analysis results
Characteristics	White or almost white crystalline powder or colourless crystals	Pass
Identification	Positive reaction	Pass
Melting point	About 190°C	190°C
Specific rotation	+20.5°~+21.5°	+21.0°
pH	2.1~2.6	2.4
Residue on ignition	≤0.1%	0.01%
Assay	99.0%~100.5%	99.8%
Heavy metals	≤10ppm	<10ppm
Clarity of solution	Clear	Pass
Color of solution	≤BY ₇	<BY ₇
Impurity E	≤0.2%	<0.2%
Copper	≤5ppm	<5ppm
Iron	≤2ppm	<2ppm

Conclusion: The above product conforms with BP2014/USP37 standard.

QC

Rechecker

吴云燕

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Certificate of Analysis

COA NO.: 14121370

Product: Ascorbic Acid

Analysis Standard: BP2014/USP37

Batch Number: 1140850174

Quantity: 3000kg

Manufacture Date: Aug. 31, 2014

Expiry Date: Aug. 30, 2017

Analysis contents	Analysis standard	Analysis results
Characteristics	White or almost white crystalline powder or colourless crystals	Pass
Identification	Positive reaction	Pass
Melting point	About 190°C	190°C
Specific rotation	+20.5°~+21.5°	+21.1°
pH	2.1~2.6	2.4
Residue on ignition	≤0.1%	0.03%
Assay	99.0%~100.5%	99.8%
Heavy metals	≤10ppm	<10ppm
Clarity of solution	Clear	Pass
Color of solution	≤BY ₇	<BY ₇
Impurity E	≤0.2%	<0.2%
Copper	≤5ppm	<5ppm
Iron	≤2ppm	<2ppm

Conclusion: The above product conforms with BP2014/USP37 standard.

QC

Rechecker 吴云燕

Writer 焦方艳

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Certificate of Analysis

COA NO.: 14121369

Product: Ascorbic Acid

Analysis Standard: BP2014/USP37

Batch Number: 1140850170

Quantity: 3000kg

Manufacture Date: Aug. 31, 2014

Expiry Date: Aug. 30, 2017

Analysis contents	Analysis standard	Analysis results
Characteristics	White or almost white crystalline powder or colourless crystals	Pass
Identification	Positive reaction	Pass
Melting point	About 190°C	190°C
Specific rotation	+20.5°~+21.5°	+21.0°
pH	2.1~2.6	2.4
Residue on ignition	≤0.1%	0.04%
Assay	99.0%~100.5%	99.8%
Heavy metals	≤10ppm	<10ppm
Clarity of solution	Clear	Pass
Color of solution	≤BY ₇	<BY ₇
Impurity E	≤0.2%	<0.2%
Copper	≤5ppm	<5ppm
Iron	≤2ppm	<2ppm

Conclusion: The above product conforms with BP2014/USP37 standard.

QC

Rechecker 吴云燕

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