SPECIFICATION

Acetylcysteine

Japanese Pharmacopoeia

	REQUIREMENT	SPECIFICATION
*	Description (JP)	White crystals or crystalline powder
	Identification (JP)	to pass test
	Optical rotation [α]D20 (JP)	+21.0~+27.0°
	Melting point (JP)	107~111℃
	Purity (JP)	-
(1)	Chloride (JP)	not more than 0.040%
(2)	Sulfates (JP)	not more than 0.030%
(3)	Ammonium (JP)	not more than 0.02%
(4)	Iron (JP)	not more than 10ppm
(5)	Related substances (JP)	to pass test
	Loss on drying (JP)	not more than 0.5%
	Residue on ignition (JP)	not more than 0.3%
	Assay (calculated on the dried basis) (JP)	99.0~101.0%
*	Bacterial endotoxins	less than 10EU/g
	Identification (USP-NF)	to pass test
	Assay (dried basis) (USP-NF)	98.0~102.0%
	Impurities (USP-NF)	-
(1)	Residue on ignition (USP-NF)	NMT 0.5%
	Specific tests (USP-NF)	-
(1)	Optical rotation (USP-NF)	+21~+27°
(2)	pH (USP-NF)	2.0~2.8
(3)	Loss on drying (USP-NF)	NMT 1.0%
*	Appearance (Ph.Eur.)	white or almost white, crystalline powder or colourless crystals
	Identification (Ph.Eur.)	to pass test
	Appearance of solution (Ph.Eur.)	to pass test
	Specific optical rotation (Ph.Eur.)	+21.0~+27.0°
	Related substances (Ph.Eur.)	to pass test
	Zinc (Ph.Eur.)	maximum 10ppm
	Loss on drying (Ph.Eur.)	maximum 1.0%

Sulfated ash (Ph.Eur.)	maximum 0.2%
Assay (dried substance) (Ph.Eur.)	98.5~101.0%

The Japanese Pharmacopoeia (Acetylcysteine)(*:Additional test performed by Wako)United States Pharmacopeia - National Formulary (Acetylcysteine)European Pharmacopoeia (Acetylcysteine)(*:Additional test performed by Wako)

(2 / 2) revised on 2024/06/11