

SPECIFICATION

Acetonitrile

for the Japanese Pharmacopoeia General Tests (for Liquid Chromatography)

REQUIREMENT	SPECIFICATION
Description (JP method)	Colorless clear liquid
Absorbance (200nm) (JP method)	max.0.07
Absorbance (210nm) (JP method)	max.0.046
Absorbance (220nm) (JP method)	max.0.027
Absorbance (230nm) (JP method)	max.0.014
Absorbance (240nm) (JP method)	max.0.009
Description (USP-NF method)	Clear, colorless liquid
Assay (USP-NF method)	min.99.5%
Color (APHA) (USP-NF method)	max.10
Residue after evaporation (USP-NF method)	max.0.005%
Titration acid (USP-NF method)	max.8 μ eq/g
Titration base (USP-NF method)	max.0.6 μ eq/g
Water (H ₂ O) (USP-NF method)	max.0.3%
Absorbance (254nm) (USP-NF method)	max.0.01
Absorbance (220nm) (USP-NF method)	max.0.05
Absorbance (190nm) (USP-NF method)	max.1.00
Absorbance (250~280nm) (USP-NF method)	max.0.01
Gradient elution (USP-NF method)	passes test
Description (EP method)	Clear, colourless liquid
Sp. Gr.(20/20°C) (EP method)	about 0.78
Refractive index 20°C (EP method)	about 1.344
pH of a 100g/L solution (EP method)	Neutral to litmus paper
Distillation range (80~82°C) (EP method)	min.95%
Absorbance (255~420nm) (EP method)	max.0.01
Absorbance (240~800nm) (EP method)	max.0.01
Content (EP method)	min.99.9%
Absorbance (200nm) (EP method)	max.0.10
Appearance	Colorless clear liquid
Density (20°C)	0.780~0.783g/mL

Refractive index 20°C	1.343~1.346
Absorbance (200nm)	max.0.05
Absorbance (210nm)	max.0.03
Absorbance (220nm)	max.0.02
Absorbance (230nm)	max.0.01
Absorbance (240nm)	max.0.005
Water	max.0.05%
Residue after evaporation	max.0.001%
Acidity (as CH ₃ COOH)	max.0.001%
Ammonium (NH ₄)	max.0.3ppm
Peroxides (as H ₂ O ₂)	max.5ppm
Fluorescence test	to pass test
Substances reducing permanganate	to pass test
Gradient test	to pass test
Assay (capillary GC)	min.99.8%