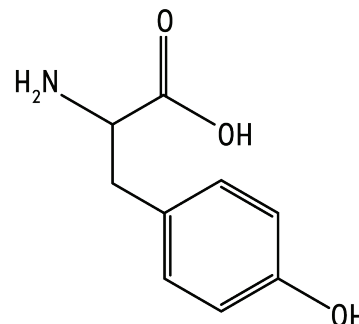


# Product Specification

<b>Product Name</b>	L-Tyrosine
<b>Compendia</b>	USP/EP/IP
<b>CAS #</b>	60-18-4
<b>Formula</b>	C <sub>9</sub> H <sub>11</sub> NO <sub>3</sub>
<b>Molecular Weight</b>	181.19
<b>Description</b>	White crystals or crystalline powder. Freely soluble in formic acid, practically insoluble in water and in ethanol (95). Dissolves in dilute hydrochloric acid and in ammonia T.S.
<b>Solubility</b>	
<b>Identification</b>	1) Compare the infrared absorption spectrum of the sample with that of the standard by potassium bromide disc method. 2) Determine the absorption spectrum of a solution of the sample in 0.1 mol/L hydrochloric acid (1 in 10000) as directed under Ultraviolet-visible Spectrophotometry, and compare the spectrum with the Reference Spectrum: both spectra exhibit similar intensities of absorption at the same weight.



Test	Specification
<b>Specific Rotation @ 20°C</b>	-11.3 to -12.1°
<b>State of Solution</b>	Clear and Colorless; Not less than 98.0%
<b>Chloride (Cl)</b>	Not more than 0.020%
<b>Ammonium (NH<sub>4</sub>)</b>	Not more than 0.02%
<b>Sulfate (SO<sub>4</sub>)</b>	Not more than 0.020%
<b>Iron (Fe)</b>	Not more than 10ppm
<b>Heavy Metals (Pb)</b>	Not more than 10ppm
<b>Arsenic (As<sub>2</sub>O<sub>3</sub>)</b>	Not more than 1ppm
<b>Related Substances</b>	1) Conforms 2) Phenylalanine: Not more than 0.50%; Any unspecified impurity: Not more than 0.20%; Total impurities: Not more than 0.60%
<b>Loss of Drying</b>	Not more than 0.20%
<b>Residue on ignition (Sulfated)</b>	Not more than 0.10%
<b>Assay</b>	99.0 to 101.0%
<b>pH</b>	5.0 to 6.5
<b>Endotoxin</b>	Less than 6.0EU/g