



## Specification

Concerning Product:	
Article number	165450179CURL
Trade name / designation / denomination	Neotam (97-102%), USP
CAS number	165450-17-9
Other names / synonyms	•(3R)-3-(3,3-dimethylbutylamino)-4-[[[(2R)-1-methoxy-1-oxo-3-phenylpropan-2-yl]amino]-4-oxobutanoic acid; •L-Phenylalanine, N-(3,3-dimethylbutyl)-L-α-aspartyl-, 2-methyl ester;
EC number	605-408-8
Molecular weight [g / mol]	378.4626
Formula	C <sub>20</sub> H <sub>30</sub> N <sub>2</sub> O <sub>5</sub>

Parameter	Specification	Unit
<b>Organoleptic test</b>		
Appearance	white to off-white Powder	
<b>Physical parameter</b>		
Loss on drying	≤ 5,0	%
pH value	(5g/l solution) 5,0 – 7,0	
Specific Optical Rotation	(20°C,D)[•dm <sup>2</sup> /kg] -40,0 – -43,4	°
Solubility	Ethanol & Ethyl Acetate @ 25° C: ≤ 1,26	% (w/w)
Solubility	in H <sub>2</sub> O @ 60° C: ≤ 4,75	% (w/w)
<b>Identity</b>		
Assay	97,0 – 102,0	% [w/w]
Infrared absorbtion spectrometry	Conforms with standard	
Melting Point (identity)	81 – 84	°C
<b>Impurities</b>		
Residue on ignition	≤ 0,2	%

Impurity	N-[N-(3,3-Dimethylbutyl)-Aspartyl]-L-Phenylalanine ≤ 1,5	%
Related substances	≤ 2,0	% [w/w]
<b>Residual Solvents</b>		
Residual solvents	neg.	
<b>Elemental Impurities</b>		
Lead (Pb)	≤ 1	ppm
<b>Microbiological data</b>		
Aerobic microorganisms	≤ 250	CFU/g
Coliform bacteria	≤ 10	MPN/g
Salmonella	neg.	
Staphylococcus Aureus	neg.	
Yeast and Mould	≤ 100	CFU/g

#### **Supplemental information:**

**Shelf life:** 2 years

**Storage conditions:** Keep in tightly closed original sealed packing in a cool, clean and dry place, away from direct sunlight and water.

**Complies with monographie:** USP, GB 29944-2013

**Regional origin:** CN

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 09. Feb. 2022

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