

NMT 1 ppm NMT 25 ppm

NMT 0.5 ppm NMT 10 ppm NMT 15 ppm

Cd

## " clyzo " - Monograph Compariso





	AS PER CURRENT USP 2022/EP11/JP18						
	Product Name	L-Asparagine 1-hydrate (Ph. Eur.) pure, pharma grade	PanReac 🍫	Issue Date	March-23		
	Product Code	A1668	AppliChom	Prepared by	Sr. Tech Lead		
	CAS NO.	5794-13-8	AppliChem	Reviewed by	Manager Technical		
	Manufacturer Name	PanReac AppliChem	Tivv Reagents	Version no.			
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Sr. No.	Test	Manufacturer COA		Pharmacopeial Specifications			
SI. NO.	rest	CompliesPh. Eur.	USP 2022	EP Version 11.0	JP 18		
1	Descriprion	Solid	White crystals or a crystalline powder. It melts at about 234°C	white or almost white, crystalline powder or colourless crystals.	Product Not Official in Japanes pharmacopoeia		
2	Solubility		Soluble in water; practically insoluble in alcohol and in ether. Its solutions are acid to litmus.	slightly soluble in water, practically insoluble in ethanol (96 per cent) and in methylene chloride.			
3	Identification 1	Passes the Test	In the assay test, the retention time of the major peak of the Sample solution corresponds to that of the Standard solution.	Should comply with specific optical rotation test			
4	Identification 2	Passes the Test	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Asparagine Monohydrate reference standard/working standard.	The Infrared absorption spectrum obtained with sample should be concordant with spectrum obtained with Asparagine Monohydrate reference standard/working standard.			
5	Identification 3	Passes the Test	Not mentioned	By TLC; tthe principal spot in the chromatogram obtained with the test solution is similar in position, colour and size to the principal spot in the chromatogram obtained with the reference solution.			
6	Identification 4	Passes the Test	Not mentioned	Should comply with loss on drying test			
7	Appearance of solution	Passes the Test	Not mentioned	Sample solution should be clear and colourless			
8	рН	Between 4.0 and 6.0	Not mentioned	Between 4.0 and 6.0			
9	Specific optical rotation	Between + 33.7° and + 36.0°	Between +33.0° and +36.5°	Between+ 33.7° to + 36.0°			
10	Chlorides	NMT 0.02%	Not mentioned	NMT 200 PPM			
11	Sulfates	NMT 0.02%	Not mentioned	NMT 200 PPM	Sr. Tech Lead  Manager Technical  CLYZO/PAN/A1668/01  JP 18  Product Not Official in Japane pharmacopoeia		
12	Lead	Not mentioned	NMT 5 ppm	Not mentioned	1		
13	Ammonium	NMT 0.1 %	Not mentioned	NMT 0.1 %			
14	Iron	NMT 0.001%	Not mentioned	NMT 10 ppm			
15	Related substances	Impurity A: NMT 0.5 % Impurity C: NMT 0.1 % Unspecified Impurities: for each impurity NMT 0.05% Total: NMT 0.8 %	Asparagine related compound A: NMT 1.0% Aspartic acid: NMT 1.0% Maximum unknown impurity: NMT 0.5% Total impurities: NMT 3.0%	Impurity A: NMT 0.5 % Impurity C: NMT 0.1 % Unspecified Impurities: for each impurity NMT 0.05% Total: NMT 0.8 %			
16	Loss on drying	Between 10.5 % to 12.5 %	Between 11.5% and 12.5%	Between 10.5 % and 12.5 %			
17	Sulfated ash	NMT 0.1 %	Not mentioned	NMT 0.1 %			
18	Residue on ignition	Not mentioned	NMT 0.1%	Not mentioned			
19	Microbial contamination	Not mentioned	TAMC: NMT 10 <sup>3</sup> CFU/g TYMC: NMT 10 <sup>2</sup> CFU/g	Not mentioned			
20	Assay (dried basis)	Between 99.0 % to 101.0 %	Between 95.5% and 102.0%	Between 99.0 % to 101.0 %	]		
21	Elemental impurities		Not mentioned	Not mentioned	1		
	Hg	NMT 1.5 ppm					
	Ni	NMT 20 ppm	1				
	As	NMT 1.5 ppm	1				
	V	NMT 10 ppm					
	Со	NMT 5 ppm					
	t .		1	1			

Sb	NMT 120 ppm		
Au	NMT 10 ppm		
Pt	NMT 10 ppm		
Se	NMT 15 ppm		
Rh	NMT 10 ppm		
Li	NMT 55 ppm		
Sn	NMT 600 ppm		
Ob	NMT 0.5 ppm		
Iron	NMT 10 ppm		
Ва	NMT 140 ppm		
Pd	NMT 10 ppm		
Os	NMT 10 ppm		
Мо	NMT 25 ppm		
Cu	NMT 250 ppm		
Storage	Store at room temperature	Preserve in well-closed, light-resistant containers.	
		Store at room temperature.	

Note - If you need any additional testing, you may use our Additional Testing Feature on the product page or contact your Clyzo reprensentive.

Disclaimer - The information above is solely for your consideration. We do not recommend or affirm the suitability for any specific end use. We suggest the users should research & verify the specifications in accordance with their intended usage.