



Specification

Concerning Product:	
Article number	22839470YPULY
Trade name / designation / denomination	Aspartame Fine Granular, FCC, USP
CAS number	22839-47-0
Other names / synonyms	aspartame Aspartam
EC number	245-261-3
Customs tariff number / CN code / TARIC	29242998
Molecular weight [g / mol]	294.30312
Formula	C ₁₄ H ₁₈ N ₂ O ₅

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance	FCC/USP/E951	white, crystalline powder	
Physical parameter			
Bulk density		0,4 – 0,6	g/ml
Loss on drying	FCC/USP /EP/GB/E951	≤ 4,5	%
pH value	FCC/USP /EP/GB/E951	(in 0,8%): 4,5 – 6	
Specific Optical Rotation	FCC/USP /EP/GB/E951	+14,5 – +16,5	°
Transmittance	USP/GB/E951	≥ 95	%
Identity			
Assay	FCC/USP /EP/GB/E951	(dry) 98 – 102	%
Identification	USP/E951	complies	
Impurities			
Residue on ignition	FCC/USP /EP/GB/E951	≤ 0,2	%
Heavy Metals (as Pb)	USP/EP/E951	≤ 10	ppm
Impurity	EP	L-phenylalanine: ≤ 0,5	%
Impurity	FCC/USP /EP/GB/E951	Diketopiperazine (5-Benzyl-1,3,6-Dioxo-2-Piperazineacetic Acid): ≤ 1,5	%
Related substances	USP/EP/GB/E951	others in sum: ≤ 1,5	%

Elemental Impurities			
Arsenic (As)	FCC/USP /EP/E951	≤ 3	ppm
Lead (Pb)	FCC/USP /EP/GB/E951	≤ 1	ppm
Microbiological data			
Coliform bacteria		≤ 3	MPN/g
Escherichia Coli.		Negative	CFU/g
Salmonella		Negative	CFU/g
Total Plate Count		≤ 250	CFU/g
Yeast and Mould		≤ 100	CFU/g
Particle size distribution			
Particles		60-100 mesh: ≤ 100	%

Annotation:

FCC= Food Chemical Codex

EP= European Pharmacopoeia

USP= US Pharmacopoeia

GB= National Standard of P.R.C

Supplemental information:

Released by manufacturer:

2015-06-12

Regional origin:

CN

Conclusion:

Complies with FCC9/USP-NF33/E951 standard.

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 31. Jul. 2018

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