

CERTIFICATE OF ANALYSIS

Product	HSWT ASPARTAME POWDER	Lot no.	E207180
Molecular Formula	C14H18N2O5	Manufacturing date	18-JUL-2022
Expiration date	19-JUL-2027	INS	951 or E951 in EU
CAS Number	22839-47-0	EINECS Number	245-261-3
Description	Non-Nutritive artificial sweetener, white or almost white crystalline powder having a sweet taste, slightly hygroscopic, odourless and approximately 200 times as sweet as sucrose, sparingly or slightly soluble in water and in ethanol (alcohol).		

Tests	Method	Specifications	Results
IDENTITY TEST			
Infrared absorption	FCC, JSfA	Conform to standard	Conform to specification
PURITY			
Assay (Dried basis)	FCC, JSfA, EU, JECFA	98.0 - 102.0 %	99.2
Assay by HPLC (dried basis)	FCC, USP	98.0 - 102.0 %	98.8
Loss on drying	FCC, JSfA, EU, JECFA	≤ 4.5 %	2.8
5-benzyl-3,6-dioxo-2-piperazineacetic acid	EP	≤ 1.5 %	0.03
Residue on ignition	FCC, JSfA	≤ 0.2 %	Conform to specification
Heavy metals (as Lead)	EP	≤ 10 mg/kg	Conform to specification
Arsenic	EP	≤ 3 mg/kg	Conform to specification
Lead	HS	≤ 1 mg/kg	Conform to specification
Specific rotation	FCC, JSfA, EU, JECFA	+14.5° to 16.5°	15.0
Transmittance	EU, JECFA	≥ 95.0 %	99.9
pH	FCC, JSfA, EU, JECFA	4.5 to 6.0	5.4
Conductivity	EP	≤ 30 µS/cm	Conform to specification
Related substances (1)	EP	≤ 1.5 %	Conform to specification
L-aspartyl-L-Phenylalanine	EP	≤ 0.25 %	Conform to specification
L-Phenylalanine	EP	≤ 0.5 %	Conform to specification
Residual solvents	HS	Meets requirements	Conform to specification

Other optical isomers	HS	≤ 0.02 %	Conform to specification
Appearance of solution	EP	Clear and not more coloured than GY6	Conform to specification
MICROBIOLOGICAL PROPERTIES			
Total aerobic bacteria	HS	≤ 250 CFU/g	< 10
Yeast and Mold	HS	≤ 100 CFU/g	< 10
Coliforms	HS	≤ 10 CFU/g	Conform to specification
E.Coli	HS	Negative / g	Conform to specification
Salmonella	BKR 23/07-10/11	Negative / 25g	Conform to specification
PHYSICAL PROPERTIES			
Particle size (on 150 µm)	HS	≤ 1.0 %	0.0
Bulk density (unpacked)	HS	0.20 +/- 0.10 g/ml	Conform to specification

Information	Details
Quality system and compliance	Quality system of HSWT France SAS is certified ISO 9001(2015) and BRC(V8) by SGS. This lot is in compliance with HSWT Aspartame specification no. HS 0110.
Methods version	HS: internal method; EP: 10th Ed (2020); USP: USP-NF (2021); FCC: 12th Ed (2020); JSfA: 8th Ed (2007); EU: 231/2012; JECFA: Monographs 19 (2016).
Odor storage note	HSWT Aspartame should not be stored near products with strong odor.
Regulatory compliance	HSWT Aspartame fully complies with the purity criteria of EU Commission Regulation No 231/2012 and amendments. It fully meets the criteria of USP NF, FCC, EP and food standards.
GMO statement	HSWT Aspartame supplied by HSWT France SAS, Gravelines, France, is considered not genetically modified and not derived from genetically modified organisms as defined by Regulations (EC) No 1829/2003 and (EC) No 1830/2003, as amended.
Allergen statement	HSWT Aspartame does not contain substances having allergenic properties for which labelling is required, as listed in Annex II of Regulation 1169/2011 and subsequent amendments.