

# CERTIFICATE OF ANALYSIS

E306080

Product : **HSWT ASPARTAME POWDER**  
Conditioning : **Cardboard box 25 kg**  
Lot N° : **E306080**  
Customer : **JJD**



Manufacturing date : 08-JUN-2023

Expiration date : 09-JUN-2028

INS : **951 or E951 in EU**

Molecular Formula : **C<sub>14</sub>H<sub>18</sub>N<sub>2</sub>O<sub>5</sub>**

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, slightly soluble in water and in methanol.**

Tests	Method	Specifications	Results
<b>IDENTITY TEST</b>			
Infrared absorption	FCC, JSfA	Conform to standard	Conform to specification
<b>PURITY</b>			
Assay (Dried basis)	FCC, JSfA, EU, JECFA	98.0 - 102.0 %	99,5
Assay by HPLC (Dried basis)	FCC, USP	98.0 - 102.0 %	99,5
Loss on drying	FCC, JSfA, EU, JECFA	≤ 4.3 %	2,8
5-benzyl-3,6-dioxo-2-piperazineacetic acid	EP	≤ 1.0 %	0,02
Residue on ignition / Sulphated ash	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°	15,4
Transmittance	EU, JECFA	≥ 95.0 %	99,9
pH	FCC, JSfA, EU, JECFA	4.5 to 6.0	5,1
Conductivity	EP	≤ 30 µS/cm	Conform to specification
Related substances (1)	EP	≤ 1.5 %	Conform to specification
L-α-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
<b>MICROBIOLOGICAL PROPERTIES</b>			
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 / 25 g	Conform to specification
<b>PHYSICAL PROPERTIES</b>			
Particle size (on 150 µm)	HS	≤ 1.0 %	0,0
Bulk density	HS	0.20 +/- 0.0 g/ml	Conform to specification

Quality system of HSWT France S.A.S. is certified ISO 9001(2015) and BRC(V8) by SGS. This lot is in compliance with HSWT Aspartame specification n° HS 0110. Methods version = HS: internal method ; EP: 11 th Ed (2023); USP: USP-NF (2022); FCC: 12th Ed (2020); JSfA: 8th Ed (2007); EU: 231/2012; JECFA: Monographs19 (2016). (1) Others names: Chromatographic Purity or Others Related Impurities; sum of impurities other than imp A and imp C for EP and other than imp A for USP&FCC.

## Manufacturer and Distribution

**HSWT France SAS**  
Port 7516  
59820 Gravelines, France  
Tel: +33 (0)3 28 22 74 74

**Lot reviewed and released by**  
Quality Product Manager Jean-François Correia  
Date : 20-JUN-2023

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The shelf-life of HSWT Aspartame is 5 Years from date of manufacture provided that the product is preserved in the originally well-closed container at ambient room condition in a cool and dry place (recommendations: below 30°C and 35 to 75% relative humidity), product should be reevaluated after this period.

HSWT Aspartame should not be stored near products with strong odor.

HSWT Aspartame fully complies with the purity criteria of the EU Commission Regulation No 231/2012 and amendments. Fully meets the criteria of the USP NF, FCC, EP and food standards. In compliance with the criteria of the o.m. standards this ingredient is used in consumer products world wide.

HSWT Aspartame supplied by HSWT France SAS, Gravelines, France, is produced using traditional manufacturing technologies. This ingredient is considered NOT genetically modified or NOT derived from a genetically modified organisms as defined by the Regulations (EC) No 1829/2003 of the European Parliament and of the Council on genetically modified food and feed, as amended and (EC) No 1830/2003 of the European Parliament and of the Council on traceability and labelling of genetically modified organisms and the traceability of food and feed products produced from genetically modified organisms, as amended.

HSWT Aspartame does NOT contain substances having allergenic properties for which labelling is required, as listed in Annex II of the Regulation 1169/2011 and subsequent amendments.

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