

# CERTIFICATE OF ANALYSIS

E510130

Product: **HYET ASPARTAME POWDER**  
Conditioning: **Cardboard box 25 Kg**  
Lot n°: **E510130**



Manufacturing date: 13-OCT-2015  
Expiration date: 14-OCT-2020

**Description:** **Crystalline, white powder, odourless and sweet, slightly hygroscopic, sparingly soluble or slightly soluble in water and in alcohol, practically insoluble in hexane and in methylene chloride.**

Tests	Method	Specifications	Results
<b>IDENTITY TEST</b>			
Identity test	FCC, JSfA	Conform to standard	Conform to specification
<b>PURITY</b>			
Assay (Dried basis)	FCC, JSfA, EU, JECFA	98.0 - 102.0 %	99,5
Loss on drying	FCC, JSfA, EU, JECFA	≤ 4.5 %	2,8
5-benzyl-3,6-dioxo-2-piperazineacetic acid (DKP)	EP	≤ 1.5 %	0,04
Residue on ignition	FCC, JSfA	≤ 0.2 %	Conform to specification
Heavy metals (as Pb)	EP	≤ 10 mg/kg	Conform to specification
Arsenic (as As)	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 °	15,3
Transmittance	EU, JECFA	≥ 95.0 %	99,8
pH	FCC, JSfA, EU, JECFA	4.5 to 6.0	5,2
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	≤ 0.04 %	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	BRD-07/11-12/05	Negative / 25g	Conform to specification
<b>PHYSICAL PROPERTIES</b>			
Particle size (on 150 µm)	HS	≤ 1.0 %	0,0
Bulk density	HS	0.20 +/- 0.10 g/ml	Conform to specification

Quality system of HYET Sweet S.A.S. is certified ISO 9001(2008) by SGS. This lot is in compliance with HYET Aspartame specification n° HS 0110. Methods version = HS: internal method ; EP: 8 th Ed (2014); USP: USP38-NF33 (2015); FCC: 9th Ed (2014); JSfA: 8th Ed (2007); EU: 231/2012; JECFA: Monography1 (2006). (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 :

**HYET Sweet S.A.S.**  
Port 7516, 59820 Gravelines, France  
Tel : +33 (0)3 28 22 74 74  
Fax : +33 (0)3 28 22 75 01

**Lot reviewed and released by Quality Manager**  
Quality Product Manager JF.CORREIA  
Date : 26-OCT-2015

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The shelf-life of HYET Aspartame is 5 Years from date of manufacture provided that the product is stored in the originally closed packaging at ambient temperature and dry conditions (e.g. 15 to 30°C and 35 to 75% relative humidity), product should be reevaluated after this period.

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

Hyet 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, HYET Aspartame is used in consumer products world wide.

HYET Aspartame supplied by HYET Sweet S.A.S., Gravelines, France, is produced using traditional manufacturing technologies. This ingredient must be considered "NOT genetically modified" or "NOT derived from a genetically modified organisms" as defined by the EC Regulations No. 1830/2003/EC on labelling and traceability and 1829/2003/EC on the genetically modified food and feed and any amending legislation.

HYET 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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A handwritten signature in blue ink, appearing to be "JF. CORREIA", is written over the printed name and date.