

 <b>Specification</b> <b>"AminoSweet" Aspartame Powder</b>		
Supplier:	Ajinomoto Co., Inc. 15-1, Kyobashi 1-Chome, Chuo-ku, Tokyo 104 Japan Tel: 03-5250-8111	
Description:	Aspartame is a high intense sweetener which is approximately 200 times sweeter than sugar, and it's a white, odorless and crystalline powder.	
Product name:	<b>"AminoSweet" Aspartame Powder</b>	
Synonyms:	Aspartyl phenylalanine methyl ester, APM	
Shelf Life:	Aspartame is stable for 5 years in normal conditions (temperature: 5-35°C <sup>°</sup> , humidity: 45-85% <sup>%</sup> ), when properly stored in sealed, original container. In addition, don't store near products with a strong odor.	
Chemical Name:	N-L- $\alpha$ -Aspartyl-L-phenylalanine -1- methyl ester, <sup>*1&amp;2</sup> : Japanese Industrial Standards	
Molecular Formula:	C <sub>14</sub> H <sub>18</sub> N <sub>2</sub> O <sub>5</sub>	Molecular Weight: 294.3
Packaging:	Net 25kg x 1 bag in a carton box Net 1kg x 10 bags in a carton box	
Specifications	Standard value	Test / Remarks
Identification	conform to standard	Ajinomoto Method (FT-IR;ATR)
Assay	98.0% - 102.0%	JPE, JSFA
Loss on drying	Not more than 4.5%	JSFA, JPE, JECFA, FCC, USP/NF, EP
5-Benzyl-3,6-dioxo-2-piperazine acetic acid(DKP)	Not more than 1.5%	FCC, USP/NF
Residue on ignition	Not more than 0.2%	JSFA, JPE, EP, USP/NF
Heavy metals (as Pb)	Not more than 10 $\mu$ g/g	JSFA, JPE, USP/NF, JECFA
Arsenic (as As <sub>2</sub> O <sub>3</sub> )	Not more than 3 $\mu$ g/g	JSFA, JPE
Lead	Not more than 1mg/kg	Ajinomoto Method (AAS)
Specific rotation [ $\alpha$ ] <sub>D</sub> <sup>20</sup>	+14.5° to +16.5°	JSFA, JPE, JECFA, FCC, USP/NF, EP
Transmittance	Colorless, Transparent, Not less than 0.95	JSFA, JPE
pH	4.5 - 6.0	JSFA, JPE, JECFA, FCC
Other related impurities FCC	Not more than 2.0%	FCC, USP/NF
Other optical isomers	Not more than 0.02%	JECFA
Total aerobic bacteria	Not more than 250cfu/g	JP
Yeasts and molds	Not more than 100cfu/g	JP
Coliforms	Negative/g	FHTM
E.coli	Negative/g	FHTM

JSFA	:	Japan's specifications and standards for food additives
JPE	:	Japanese pharmaceutical excipients
JECFA	:	Joint FAO/WHO Expert Committee on Food Additives
FCC	:	Food chemicals codex
EP	:	European pharmacopoeia
USP/NF	:	United States Pharmacopoeia/National Formulary
FHTM	:	Guideline for Food Hygiene Test Method
JP	:	Japanese pharmacopoeia