



Certificate of Analysis

Product Name Vitasweet® Ace K
Synonyms Acesulfame K
Definition Chemical name: Potassium Salt of 6-methyl-1,2,3-oxathiazin-4(3H)-one-2,2-dioxide
C.A.S. number: 55589-62-3
Chemical formula: C₄H₄KNO₄S
Molecular weight: 201.24

Description White, odorless, free flowing crystalline powder having an intensively sweet taste.
Approximately 200 times as sweet as sucrose (3% solution)

Functional Use Nonnutritive sweetener

Tests and Results

Batch Number: 1507063

Batch Size: 4000kg

Date of Production: Jun.14, 2015

Test	Requirement	Result
Identifications		
Solubility in water	Freely soluble	Freely soluble
Solubility in ethanol	Slightly soluble	Slightly soluble
Ultraviolet absorption	227 ± 2 nm	227 nm
Test for potassium	Positive	Positive
Precipitation test	Yellow precipitate	Yellow precipitate
Assay (Titrimetric method)	99.0~101.0 %	99.46%
Purity		
Loss on drying(105°C,2h)	≤ 1 %	0.04%
Organic impurities (HPLC)	≤ 20 mg/kg	< 20 mg/kg
Impurity A*	≤ 0.125 %	< 0.125 %
Impurity B **	≤ 20 mg/kg	< 20 mg/kg
Fluoride	≤ 3 mg/kg	0.16mg/kg
Heavy metals	≤ 5 mg/kg	1.0mg/kg
Lead	≤ 1 mg/kg	0.42mg/kg
pH (1 in 100 Solution)	5.5~7.5	6.75

* Impurity A=3-oxobutanamide

** Impurity B=5-chloro-6-methyl-1,2,3-oxathiazin-4(3h)-one2,2-dioxide

Statement The product meets the requirements of **FAO/WHO JECFA FCC 9, EP8.**

Date of Test: Jun.15, 2015

Gu Yumin

Director of laboratory

Date of Expiry: Jun.13, 2018

Cao Jinxia

Manager of QC Dept