

Certificate of Analysis

PI NO.:01200935-11

Product Name Vitasweet® 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; E number: 950

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 High potency-low caloric sweetener

Tests and Methods: FCC10,EP9,USP39-NF34

Batch Number: 2011030 Batch Size: _____ Date of Production: Oct.13,2020

| Test item | 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 % | 99.47% |
| Purity | | |
| Loss on drying(105℃,2h) | ≤ 1 % | 0.02% |
| 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 | 0.09mg/kg |
| pH (1 in 100 Solution) | 5.5 ~ 7.5 | 5.98 |

* Impurity A=3-oxobutanamide

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

Date of Test: Oct.14,2020

Huang Huanhuan

Director of laboratory

Date of Expiry: Oct.12,2023

Gu Yumin

Review person

