**I. Product Information**

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| Item Name: | Acesulfame-K |
| Item Code: | ASK |
| Brand: | **Vitasweet** |
| Distributor: | Daffid Industries, Inc. |

**II. Specifications**

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| **Parameter** | **Standard** | **Method** |
| **II.A Sensory Characteristics** | | |
| Appearance (As is) | White, free flowing crystalline powder, no lumps, and no foreign matters | TMT-QCRM-005 |
| Odor (% Sol’n) | Odorless, no off smell | TMT-QCRM-005 |
| Taste (1g in 1L) | Sweet, no off taste | TMT-QCRM-005 |
| **II.B Physico-Chemical Properties** | |  |
| pH (1% Sol’n) | 5.5 - 7.5 | TMT-QCRM-003 |
| Solubility in water | Freely Soluble | FAO/WHO JEFCA FCC VIII and EP7 |
| Solubility in ethanol\* | Slightly Soluble | FAO/WHO JEFCA FCC VIII and EP7 |
| Ultraviolet absorption, nm\* | 227 ± 2 | FAO/WHO JEFCA FCC VIII and EP7 |
| Test for Potassium\* | Positive | FAO/WHO JEFCA FCC VIII and EP7 |
| Precipitation test\* | Yellow Precipitate | FAO/WHO JEFCA FCC VIII and EP7 |
| Assay (Titrimetric method, %\* | 99.0 – 101.0% | FAO/WHO JEFCA FCC VIII and EP7 |
| Loss on drying (105°C, 3h), %\* | <1 % | FAO/WHO JEFCA FCC VIII and EP7 |
| Organic Impurities (HPLC) | < 20 mg/kg | FAO/WHO JEFCA FCC VIII and EP7 |
| Impurity A\*\*, %\* | < 0.125 | FAO/WHO JEFCA FCC VIII and EP7 |
| Impurity B\*\*\*, %\* | < 20 mg/kg | FAO/WHO JEFCA FCC VIII and EP7 |
| Fluoride | < 3 mg/kg | FAO/WHO JEFCA FCC VIII and EP7 |
| Heavy Metals | < 5 mg/kg | FAO/WHO JEFCA FCC VIII and EP7 |
| Lead | < 1 mg/kg | FAO/WHO JEFCA FCC VIII and EP7 |

**\****Test results based on the CoA provided by the supplier.*

*\*\* Impurity A = 3-oxobutanamide*

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

**III. Packaging and Storage Condition**

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| --- | --- |
| Packaging | 25-kg, weaved polypropylene bag with polyethylene inner liner. |
| Shelf-life | 24 months from manufacturing date |
| Storage Condition | Store in a dry, well-ventilated area, away from direct heat and sunlight. |
| Room Temp. and RH | 25 - 37°C; 50-70% |

**IV. Rejection Factor**

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| --- | --- |
| Major | Appearance, Taste, Odor, pH |
| Minor | Other Physico-Chemical Properties |

**Revision Record**

|  |  |  |  |
| --- | --- | --- | --- |
| Revision no. | Date | Revision | Author |
| 00 | January 29, 2024 | Initial Issue | C. Quintans |