Technical Data Sheet

Edition: AGH 01/14

PRODUCT NAME: Alpha Glucosyl Hesperidin

PRODUCT DESCRIPTION: Glucose addes hesperidin using cyclodextrin glucanotranferase

INCI NAME: Glucosyl Hesperidin

STORAGE CONDITIONS: Store in a cool, dark and dry place

EXPIRY DATE: Three (3) years from the production date

PACKAGE: Laminated multilayer bag (Net 1Kg)

Variables	Specification
Description	Light yellow to yellowish brown powder having slight characteristic odor
Identification	
(1) Hesperidin	Dissolve 5 mg of a test substance in 10 mL of diluted ethanol (1 in 2) and add 1 to 2 drops of ferric chloride solution (1 in 50): a brown color develops
(2) Hesperidin	Dissolve 5 mg of a test substance in 5 mL of water and add 2 mL of hydrochloric acid and 0.05 g of magnesium powder: a red-purple color develops
(3) Sugars	Dissolve 5 mg of a test substance in 5 mL of water. To 1 mL of this solution add 1 mL of a solution of phenol (1 in 20) and mix. The add 5 mL of sulfuric acid to boil up immediately: an orange color develops
(4) Infrared absorption	It exhibits specific absorption at the wave numbers of about 3,420 cm^{-1} , 2,930 cm^{-1}, 1,640 cm^{-1}, 1,520 cm^{-1}, 1,440 cm^{-1}, 1,300 cm^{-1}, 1,200 cm^{-1} and 1,070 cm^{-1}
Purity	
(1) Clarity and Color in solution	Clear and light yellow to yellow (1.0 in 10)
(2) Heavy Metals	Not more than 20 ppm as Pb (Method 2)
(3) Arsenic	Not more than 2 ppm as AS_2O_3 (Method 3)
Loss on drying	Not more than 5.0% (1.0 g in vacuum, 120 °C, 2 h)
Residue of ignition	Not more than 0.5% (1 g)
Assay % of monoglucosyl hesperidin (o.d.b)	Not less than 75%

Details as received from the manufacturer
Effective Date: 01.07.2012
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