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SPECIFICATION SHEET Glucosamine Hydrochloride

Item Code: 104
Updated: August 2012

Country of Origin: China

TEST ITEMS

Properties (physical):

Appearance

SPECIFICATIONS

White crystalline, free-flowing powder

TEST METHODS

USP32<695>

Identification:

A: Infrared Absorption

B: Chloride Tests

C: Retention Time

(Assay)

To meet requirements

To meet requirements

To correspond to reference standards

USP32<197K>

USP32<191>

USP32, P1030<621>

Content Assay

Specific Rotation

Transmittance

99.0~101.0%

+70.0~+73.0°

>95.0% (10% water soluble - 450 nm)

USP32-P1030 (A) <621>

USP32<781S>

USP32<851>

Absorption

<0.25 A.U (20% water soluble -280nm)

USP32<851>

Loss on drying

Residue on Ignition

pH

Chloride

Sulfate

≤0.1% (105°C/2hrs)

≤0.1%

3.0~5.0

16.2 – 16.7%

≤0.24%

USP32<731>

USP32<281>

USP32<791>

USP32<541>

USP32<221>

Organic Volatile Impurities

& Residual Solvents

Bulk density:

Tapped density

Loose density

Particle size

Meet USP requirements

USP32<467>I &<467>

≥0.50 g/ml (100 mesh)

≥0.75 g/ml (20 mesh)

All through a US Standard

Sieve 20 mesh, 100 mesh, or other mesh

USP32<616>

USP32<616>

USP32<786>

Iron

Heavy Metals

Lead (Pb)

Arsenic (As)

Total Plate Count

Yeast & Mold

E. coli

Salmonella

Staphylococcus aureus

≤10.0 ppm

≤10.0 ppm

≤0.5 ppm

≤0.5 ppm

≤1,000 cfu/g

≤100 cfu/g

Negative

Negative

Negative

USP32<241>, <851>

USP32<231>II

USP32<251>, <851>

USP32<211>II, <851>

USP32<61>

USP32<61>

USP32<62>

USP32<62>

USP32<62>

Conclusion:

Packing:

Storage:

Shelf Life:

Conforms to USP32 standards

In drums of 25 kgs

Preserve in tight, light-resistant containers

3 years under normal storage conditions

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