Chondroitin sulphate A sodium salt

Cell Culture Tested

Product Code: TC040

Product Description:

CAS No.: 39455-18-0
Synonyms: CHS-A, Chondroitin-4-sulfate

Chondroitin sulfate is a major constituent of cartilage, the connective tissue found in joints. It is also found in bone, cornea, ligament, tendon, etc. It is sulfated glycosaminoglycan (GAG) composed of linear polysaccharide chain with alternating units of N-acetylgalactosamine and glucoronic acid. The N-acetylgalactosamine units are sulfated at 4 or 6 hydroxyl positions giving rise to chondroitin-4-sulfate and chondroitin-6-sulfate respectively. Chondroitin sulfate A (CHS-A) refers to chondroitin-4-sulfate.

Chondroitin is highly negatively charged because of the presence of sulfate group and it can retain sodium and water molecules giving cartilage its sponge-like quality. Hydration maintains the compressibility, elasticity and fluidity of joint movement.

Chondroitin sulfate is used in serum free cell culture to prevent clumping of cells and to provide a suspension culture.

Quality Control:

Appearance
White to off white powder

Solubility
Clear to hazy colourless solution at 10gm in 100ml of water

pH of 1% solution in water
5.00 – 8.50

FTIR
Standard pattern

Loss on drying
NMT 10%

Assay
NLT 90%

Cell Culture Test
Passes

Storage and Shelf Life:

Store at 15 - 30°C away from bright light.
Shelf life is 36 months.
Use before expiry date given on the product label.

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ Publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.

Email: info@himedialabs.com