



Announcing Animal Origin Confirmation for Chondroitin

Animal Origin Confirmation—This technique identifies the species of animal (beef, poultry or porcine) based on a specific antigen found in animal derived products. In the last 2 years, this method has been extensively validated for Chondroitin sulfate raw materials and finished products in terms of its possible false negative and false positive findings, and the detection limits etc. In addition to our expertise on the Enzymatic Hydrolysis-HPLC assay for testing the chondroitin di-saccharides -4-sulfate and 6-sulfate ratio, this is another powerful tool to help control the quality and authenticity of chondroitin sulfate products in the market place.

Method Performance--.Economic adulteration levels at 10% or higher can be confirmed with high confidence. Accidental contamination levels at 1%-10% can be detected and reported as trace. Limit of Detection (LOD) levels is determined to be 1% based on current testing protocol. In another word, when a sample is reported as negative for a particular species, it means the particular species is absent or less than 1%.

Method Protocol—Each time when samples are run, there are positive control, negative control and method blank to be run simultaneously. Duplicate preparation of 5 g each sample size is done every time to assure reliability of findings.

Other services available on Chondroitin sulfate testing---

CPC titration (USP)----measures total chondroitin sulfate content

Electrophoresis---detects impurities as required by USP/NF

Enzymatic hydrolysis HPLC---measures the individual monomers that makes up the chondroitin sulfate polysaccharides.