

# Low Molecular Weight Chondroitin Sulfate Sodium

Available in a 3-5 kDa range, this low-molecular-weight chondroitin sulfate sodium can be customized to specified molecular-weight requirements. Its powder dissolves readily in water and is intended for health-food applications.



## Quality profile

| Item                              | Specification                                  | Result   |
|-----------------------------------|------------------------------------------------|----------|
| Appearance                        | White or almost white powder                   | Pass     |
| Clarity (420 nm)                  | Absorbance $\leq 0.35$                         | 0.09     |
| Identification                    | Liquid phase: matches reference retention time | Pass     |
|                                   | IR spectrum: consistent with reference sample  | Pass     |
|                                   | Sodium reaction: positive                      | Pass     |
| pH value                          | 5.5-7.5                                        | 6.3      |
| Chloride                          | $\leq 0.5\%$                                   | Pass     |
| Sulfate                           | $\leq 0.24\%$                                  | Pass     |
| Protein limit (dry basis)         | $\leq 3.0\%$                                   | Pass     |
| Loss on drying                    | $\leq 10.0\%$                                  | 9.55%    |
| Residue on ignition               | 20.0%-30.0%                                    | 25.90%   |
| Lead (mg/kg)                      | $\leq 0.5$                                     | <0.04    |
| Arsenic (mg/kg)                   | $\leq 0.1$                                     | <0.04    |
| Mercury (mg/kg)                   | $\leq 0.1$                                     | <0.01    |
| Total bacterial count (CFU/g)     | $\leq 1,000$                                   | Pass     |
| Yeasts and molds (CFU/g)          | $\leq 100$                                     | Pass     |
| E. coli                           | Negative                                       | Negative |
| Salmonella species (/25 g)        | Negative                                       | Negative |
| Staphylococcus aureus (/25 g)     | Negative                                       | Negative |
| Assay (calculated on dried basis) | $\geq 90.0\%$                                  | 96.80%   |
| Packaging specifications          | 25 kg/drum                                     |          |
| Storage method                    | Store sealed in a cool, dry place              |          |
| Shelf life                        | 2 years                                        |          |