

## Product Specifications & Technical Analysis

**Product Name:** kollaGen II-xs™  
**Description:** Avian (Chicken) Sternum Cartilage Collagen Type II Powder  
**Raw Material:** Deep Frozen Chicken Cartilage  
**Grade:** Food for Human Consumption

| Item                             | Specification               | Method         |
|----------------------------------|-----------------------------|----------------|
| Purity                           | 100%                        |                |
| Solubility                       | 100% cold water             | Visual         |
| Mesh size                        | 100% thru 80 mesh           | USP            |
| Molecular Weight                 | > 20 k Dalton               | SEC            |
| Total Collagen Type II (Protein) | 50% minimum                 | HPLC (AccQtag) |
| Mucopolysaccharide               | 15% minimum                 | SEC HPLC       |
| Hyaluronic acid                  | 10% minimum                 | HPLC           |
| Chondroitin                      | 20% minimum                 | HPLC           |
| Glucosamine                      | 3% minimum                  | HPLC           |
| Moisture                         | < 10%                       | USP            |
| Fat                              | < 5%                        | AOAC           |
| Heavy Metals (Total)             | NMT 20 ppm                  | ICP-MS         |
| Heavy Metals (Lead)              | NMT 2 ppm                   | ICP-MS         |
| Heavy Metals (Arsenic)           | NMT 3 ppm                   | ICP-MS         |
| Heavy Metals (Mercury)           | NMT 2 ppm                   | ICP-MS         |
| Heavy Metals (Cadmium)           | NMT 2 ppm                   | ICP-MS         |
| <b>Microbiology</b>              |                             |                |
| <b>Item</b>                      |                             |                |
| Total Aerobic Count              | < 5,000 CFU / gram          | FDA III        |
| Mold and Yeast                   | < 100 CFU / gram            | FDA XVIII      |
| E. coli                          | Negative                    | FDA IV         |
| Salmonella                       | Negative                    | FDA V          |
| <b>Physical</b>                  |                             |                |
| Appearance                       | Light yellow to brown color | Visual         |
| Odor                             | Neutral                     | Olfactory      |

**Packaging:** 25 kg double poly lined fiber drum.

**Storage:** Store in a cool dry place away from heat and direct sunlight. MATERIAL IS HYGROSCOPIC(SENSITIVE TO MOISTURE) AND SENSITIVE TO UV LIGHT. Recommended storage temperature 40-80°F.

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