

## WHITE PAPER: Bovine Tendon Long Fibre Powder

### 1.0 PRODUCT INFORMATION

**Material Name:** Bovine Tendon Long Fibre Powder  
 (Note: Type I Collagen from Tendon, Sourced from USA)

**Product Number:** FS28001 (milled fibrous powder)

**Product Description/**

**Appearance:** Lyophilized milled fibrous powder (longer fibre, passes ~4 mm screen), supplied in bag at specified weight.

**Product Analysis:**

Test / Requirement	Specification
Appearance	White / off white
Moisture Content	≤ 10% w/w
pH	3.7 – 5.7
Conductivity	< 1000 μS/cm
Endotoxin	< 10 EU/g
Hydroxyproline Assay	≥ 60% collagen w/w
SDS-PAGE	α, β and γ bands present
DSC	Peak between 50 and 70°C

### 2.0 STORAGE REQUIREMENTS

**Storage Conditions**

Store at 2 - 8°C in low humidity environment

### 3.0 PRODUCT APPLICATIONS

This (polymeric) form of collagen retains its natural cross-linking. Additional cross-linking may be applied to adjust *in vivo* absorption time. This product is suitable for applications where natural strength is required, such as dental membranes and Bone Graft Substitutes.



**Figure 2: Dental membrane (suitable for guided bone regeneration).**



**Figure 3: Bone graft substitute (contains osteo-conductive granules in mouldable form).\***

\*This product is characterized by mouldability and non-shedding of the osteo-conductive granules during moulding. These characteristics are achieved with a low-level addition of Type I polymeric collagen. Collagen Solutions proprietary technology which achieves these ends may be accessed through licensing or OEM manufacture.