



CERTIFICATE OF MATERIAL ORIGIN

Date: 10/27/2017

Revision: 02

Product: SphereCol[®], Human Collagen Coated Beads

Supplier	Advanced BioMatrix, Inc.
Supplier Catalog No.	5138
Supplier Location	California, USA
Name/Grade	SphereCol [®] , Human Collagen Coated Beads
Animal Origin (including human)	
-Animal Species	Human
-Tissue Origin	Human Neo-Natal Fibroblasts
-County of Origin	United States
Non-animal Source of Origin	
-Country of Origin	Not applicable
Animal Origin Material Adventitious Agent Risk Reduction Steps:	Multiple adventitious agent reduction and clearance steps
Method of Manufacturing	Extraction and purification from extracellular matrix derived from human fibroblasts
Briefly describe Method of Manufacturing	Collagen is purified from human fibroblast extracellular matrix via a multi-step process involving chemical soaking, extraction, filtration, and pH treatment.
Raw Material Use in Manufacturing	The raw material source for this product was produced or subjected to some non-human processing aids or materials such as animal derived serum and enzymes.
Raw Material Testing	The raw material source for this product is human fibroblasts. The cell line is tested for the presence of infectious viruses (HBsAg, HIV-1Ag, Anti-HIV-1/2 and Anti-HCV) and found non-reactive. However, no known test method can offer complete assurance of safety. Appropriate safety and personal protective practices should be followed when handling this product. Handle as if potentially infectious.

The above information has been completed by an authorized representative of management and is complete and correct to my knowledge.

President

October 27, 2017

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