



# CERTIFICATE OF MATERIAL ORIGIN

Date: 10/27/2017

Revision: 02

**Product:** VitroCol<sup>®</sup>, Human Collagen, Solution

<b>Supplier</b>	Advanced BioMatrix, Inc.
<b>Supplier Catalog No.</b>	5007
<b>Supplier Location</b>	California, USA
<b>Name/Grade</b>	VitroCol <sup>®</sup> , Human Collagen, Solution
<b>Animal Origin (including human)</b>	
-Animal Species	Human
-Tissue Origin	Human Neo-Natal Fibroblasts
-County of Origin	United States
<b>Non-animal Source of Origin</b>	
-Country of Origin	Not applicable
<b>Animal Origin Material Adventitious Agent Risk Reduction Steps</b>	Multiple adventitious agent reduction and clearance steps
<b>Method of Manufacturing</b>	Extraction and purification from extracellular matrix derived from human fibroblasts
<b>Briefly describe Method of Manufacturing</b>	Collagen is purified from human fibroblast extracellular matrix via a multi-step process involving chemical soaking, extraction, filtration, and pH treatment.
<b>Raw Material Use in Manufacturing</b>	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.
<b>Raw Material Testing</b>	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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