



# CERTIFICATE OF MATERIAL ORIGIN

Date: 10/27/2017

Revision: 02

**Product:** PureCol<sup>®</sup>, Collagen-Coated Plates, 48-Well

<b>Supplier</b>	Advanced BioMatrix, Inc.
<b>Supplier Catalog No.</b>	5181
<b>Supplier Location</b>	California, USA
<b>Name/Grade</b>	PureCol <sup>®</sup> , Collagen-Coated Plates, 48-Well
<b>Animal Origin (including human)</b>	
-Animal Species	Bovine
-Tissue Origin	Hide
-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
<b>Briefly describe Method of Manufacturing</b>	Collagen is purified from bovine hide via a multi-step process involving chemical soaking, extraction, filtration, and pH treatment.

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

President

October 27, 2017

**Corporate Headquarters**  
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San Diego, CA 92150-2403

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(510) 217-3452 Fax  
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**Manufacturing Facility**  
5930 Sea Lion Place, Ste. 100  
Carlsbad, CA 92010



## Declaration of Bovine Sourced Material

**RE:** Products Derived from Bovine Sources

Based on the information available to the Animal and Plant Health Inspection Service (APHIS – USDA), I hereby declare,

1. The product is derived from the hides of beef cattle and has not been fed renderings from other cattle.
2. The product was derived from bovines born and raised in the USA.
3. The product is of USA origin only.
4. The product is derived from bovine animals which have been subjected to ante and postmortem inspection under a veterinarian's supervision and were certified apparently free of infectious or contagious diseases.
5. Approved Standard Operation Procedures are used and followed at the time of the controlled Closed Herd cattle are harvested for hides.
6. The abattoir used to obtain the source tissue is located exclusively in the United States and is subjected to USDA approval and inspection by the USDA inspector.
7. Hides derived from the controlled Closed Herd cattle are used for the product. No other animal parts are used.
8. The hides do not come in contact with other parts (i.e. spinal column, nervous system and brain cavity) of the animal during the slaughtering process.
9. The product is derived from bovine collagen which in turn is derived from the hide which does not come from the head of the animal.
10. The product has been prepared exclusively from parts of slaughtered animals, which are fit for human consumption in accordance with Community legislation<sup>1</sup>, but are not intended for human consumption for commercial reasons.
11. The product was produced by a process that ensured that unprocessed Category 3 material<sup>1</sup> is subjected to a treatment involving washing, pH adjustment using acid or alkali followed by one or more rinses, filtration and extrusion, in order to kill pathogenic agents and this processing occurs in the USDA inspected facility (Advanced BioMatrix's USDA Facility Certification CA-COL-0003).

<sup>1</sup> Regulation (EC) No 1774/2002 of the European Parliament and the Council of 3 October 2002

Advanced BioMatrix, Inc. certifies that, to the best of our knowledge, the above declarations pertaining to our bovine collagen-based products, are true.

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