



CERTIFICATE OF MATERIAL ORIGIN

Date: 10/27/2017

Revision: 02

Product: CDH18, Human, Solution

Supplier	Advanced BioMatrix, Inc.
Supplier Catalog No.	5090
Supplier Location	California, USA
Name/Grade	CDH18, Human, Solution, 0.5 mg/ml
Animal Origin (including human)	
-Animal Species	Not applicable
-Tissue Origin	Not applicable
-County of Origin	Not applicable
Non-animal Source of Origin	
-Country of Origin	United States
Animal Origin Material Adventitious Agent Risk Reduction Steps	Not applicable
Method of Manufacturing	Recombinant and protein expression
Briefly describe Method of Manufacturing	Full-length extracellular domain of human CDH18 gene (54-608 aa) was constructed with 29 N-terminal T7/His tag and expressed in E. coli as inclusion bodies. The final product was refolded using our unique "temperature shift inclusion body refolding" technology and chromatographically purified.

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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