

# United States Patent [19]

Reid et al.

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[54] **METHOD FOR ISOLATION OF  
CONNECTIVE TISSUE BIOMATRIX**

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### Related U.S. Application Data

[63] Continuation of Ser. No. 307,311, Sep. 30, 1981, abandoned, which is a continuation-in-part of Ser. No. 89,167, Oct. 29, 1979, Pat. No. 4,352,887.

[51] Int. Cl.<sup>4</sup> ..... **C12N 5/00**

[52] U.S. Cl. .... **435/240; 435/267;  
435/273**

[58] Field of Search ..... **435/240, 241, 267, 268,  
435/270, 271, 272, 273; 260/123.7; 426/429,  
430; 435/1; 530/344, 356**

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[57] **ABSTRACT**

A method is disclosed for isolation of connective tissue fibers, called biomatrix, containing a significant portion of the extracellular matrix, i.e., basement membrane components and components of the ground substance. The connective tissue fibers isolated by this method provide significantly higher survival and attachment rates, and often significantly improved growth properties, for in vitro cultures of differentiated cells, especially epithelial cells, over current culture substrates which do not contain these fibers.

**12 Claims, No Drawings**