

Title (en)

APPARATUS AND METHOD FOR STERILIZING, SEEDING, CULTURING, STORING, SHIPPING AND TESTING TISSUE, SYNTHETIC OR NATIVE VASCULAR GRAFTS

Title (de)

GERÄT UND VERFAHREN ZUM STERILISIEREN, AUSSÄEN, KULTIVIEREN, LAGERN, VERSENDEN UND TESTEN VON SYNTHETISCHEM ODER NATIVEM GEFÄSSGEWEBETRANSPLANTAT

Title (fr)

APPAREIL ET PROCEDE POUR STERILISER, IMPLANTER, CULTIVER, TRANSPORTER ET TESTER DES GREFFONS TISSULAIRES, SYNTHETIQUES OU NATIFS

Publication

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Application

EP 96911759 A 19960409

Priority

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Abstract (en)

[origin: WO9634090A1] An apparatus and method for sterilizing, seeding, culturing, storing, shipping, and testing vascular grafts is disclosed. Specifically, the present invention relates to an apparatus and method for seeding and culturing vascular grafts with human cells. The apparatus includes a fluid reservoir (10), a pump (12), an alternating pressure source (16), and at least one treatment chamber (14). By alternating pressure to a support structure (32) within the treatment chamber (14) upon which a vascular graft scaffold (26) is positioned, a varying radial stress is placed on the scaffold (26). This stress results in a tissue-engineered vascular graft with cells and their fibers oriented in a manner which is more likely to possess long term dimensional stability and the patency of native vessels with normal physiologic function.

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C12N 5/08; C12M 3/00

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Citation (search report)

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WO 9634090 A1 19961031; AU 5484396 A 19961118; AU 703117 B2 19990318; CA 2219202 A1 19961031; EP 0822978 A1 19980211; EP 0822978 A4 19990818; JP 4059301 B2 20080312; JP H11504216 A 19990420; KR 19990008070 A 19990125; NZ 306304 A 19990329

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