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## Collagen Dura Substitute Membrane

RESODURA®*matrix* is the original collagen membrane designed to optimize conformability and strength. RESODURA®*matrix* led the way for the development of the highly conformable RESODURA®*matrix onlay* membrane. Ideal for implantation with sutures (or without), RESODURA®*matrix* is strong and adapts nicely to the defect.



Histological view of RESODURA®*matrix* partially resorbed and being replaced with new tissue, 12 weeks, Trichrome, 40x



In vivo Resorption and Replacement Animal Duraplasty Model

- Implantable with or without sutures
- Flexible, yet strong

## *RESORBA*°

REPAIR AND REGENERATE

Read the Summary of Rabbit Duraplasty Efficacy Study<sup>1</sup> on the back...



	Collagen Dura Substitute Membrane						
DUM2525 2.5 x 2.5 cm		DUM2575	REF DUM2525	<b>SIZE</b> 2.5 x 2.5 cm	PACK CON 1 me	PACKAGE CONTENTS 1 membrane	
DUM0505		2.5 x 7.5 cm		DUM0505 DUM7575 DUM10125	2.5 x 7.5 cm 5 x 5 cm 7.5 x 7.5 cm 10 x 12.5 cm	1 me 1 me 1 me 1 me	mbrane mbrane mbrane mbrane
5 x 5 cm							
DUM7575 7.5 x 7.5 cm							
DUM10125 10 x 12.5 cm							

## Summary of Rabbit Duraplasty Efficacy Study<sup>1</sup>

Grossly, at 12 weeks, there was negligible adhesion of the implants to the underlying cortex of the brain, and the dural defects were completely or nearly completely repaired. There was complete or nearly complete incorporation of RESODURA®*matrix* with the native dura at the edges of the defects. No white blood cells were found in the cerebral spinal fluid at 12 weeks implantation.

Microscopically, at 12 weeks, there was approximately 40% resorption of the implant which was balanced with the regeneration of new tissue. Evaluation of gross and microscopic data for sutured and non-sutured RESODURA®*matrix* at 2, 7, and 12 weeks showed no significant difference. Microscopically, in agreement with gross observations, RESODURA®*matrix* exhibited negligible adhesion to the cortex, but good anchorage to the native dura at the edges of the defects. By 12 weeks, host fibroblasts had invaded the implants and produced new collagen as RESODURA®*matrix* resorbed. Neovascularization of the dura substitute was evident. Inflammatory changes or foreign body responses were minimal.

<sup>1</sup> Ulreich JB, Hansen P, White MJN, Way D, French MH, Ho WY, Fryburg K, Hamilton AJ, Yuen D, and Li ST, 7th World Biomaterials Congress, 2004, p. 1008



## Collagen Matrix, Inc.

15 Thornton Road, Oakland, NJ 07436, USA Tel: 201.405.1477, Toll Free: 888.405.1001 Fax: 201.405.1355 www.collagenmatrix.com

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RESORBA Medical GmbH, Am Flachmoor 16, 90475 Nürnberg, Germany Tel: +49 9128 / 91 15 0 Fax: +49 9128 / 91 15 91 Email: infomail@resorba.com www.resorba.com