

# In Vivo Comparative Evaluation of Biocompatibility and Biodegradation of Bovine and Porcine Collagen Membranes

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**Table S1.** Semiquantitative evaluation seven days post-implantation. The collected data from the semiquantitative analysis were used to evaluate the tissue reaction and biocompatibility, as suggested in ISO 10993-6. The values for each animal are a median of 10 sections evaluated per animal.

7 days	SHAM					BioGide®					Lyostypt®				
Animals	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
<b>Polymorphonuclear</b>	1	2	1	1	2	1	1	1	1	1	1	1	1	1	2
Lymphocytes	1	1	1	0	1	1	1	1	1	1	1	1	1	1	2
Plasma Cells	1	0	0	1	1	2	1	2	2	1	2	1	2	1	3
Macrophages	2	1	1	2	1	1	1	1	1	1	3	3	3	3	3
Giant cells	0	0	0	0	0	0	0	0	0	0	1	2	1	1	2
Necrosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Score from inflammatory cells SUBTOTAL (X 2)	10	8	6	8	10	10	8	10	10	8	10	10	10	8	18
Neovascularization	0	0	0	0	0	1	1	1	1	0	1	1	2	1	2
Fibrosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fatty infiltrate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Score from tissue response SUB-TOTAL	0	0	0	0	0	1	1	1	1	0	1	1	2	1	2
TOTAL	10	8	6	8	10	11	9	11	11	8	11	11	12	9	20
Avarege					8,4					10					12.6
Result (Test–control)					---					1.6					4.2

**Table S2.** Semiquantitative evaluation 21 days post-implantation. The collected data from the semiquantitative analysis were used to evaluate the tissue reaction and biocompatibility, as suggested in ISO 10993-6. The values for each animal are a median of 10 sections evaluated per animal.

7 days	SHAM					BioGide®					Lyostypt®				
Animals	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Polymorphonuclear	2	1	1	1	2	0	1	1	2	2	1	1	1	1	1
Lymphocytes	0	0	1	1	0	1	2	2	2	2	2	2	2	2	2
Plasma Cells	0	0	0	0	1	1	1	1	0	0	0	0	1	0	0
Macrophages	1	1	1	1	2	0	1	1	3	3	3	3	3	3	3
Giant cells	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1
Necrosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Score from inflammatory cells SUBTOTAL (X 2)	6	4	6	6	10	4	12	10	14	14	14	14	16	14	14
Neovascularization	0	0	0	0	0	1	1	2	2	2	2	3	2	3	1
Fibrosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fatty infiltrate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Score from tissue response SUB-TOTAL	0	0	0	0	0	1	1	2	2	2	2	3	2	3	1
TOTAL	6	4	6	6	10	5	13	12	16	16	16	17	18	17	15
Avarege					6,4					12.4					16.6
Result (Test – control)					---					6					10.2

**Table S3.** Semiquantitative evaluation 63 days post-implantation. The collected data from the semiquantitative analysis were used to evaluate the tissue reaction and biocompatibility, as suggested in ISO 10993-6. The values for each animal are a median of 10 sections evaluated per animal.

7 days	SHAM					BioGide®					Lyostypt®				
Animals	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Polymorphonuclear	1	2	1	1	1	1	1	1	2	1	0	1	1	1	1
Lymphocytes	1	0	0	0	1	2	2	2	2	2	1	2	2	1	1
Plasma Cells	0	0	0	0	0	1	0	0	0	1	1	0	1	1	1
Macrophages	1	1	1	1	1	3	3	3	2	3	0	2	1	3	3
Giant cells	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Necrosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Score from	6	6	4	4	6	14	12	12	12	14	4	10	10	12	12
inflammatory cells															
SUBTOTAL (X 2)															
Neovascularization	0	0	0	0	0	1	1	1	1	2	1	0	1	0	0
Fibrosis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fatty infiltrate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Score from tissue response	0	0	0	0	0	1	1	1	1	2	1	0	1	0	0
SUB-TOTAL															
TOTAL	6	6	4	4	6	15	13	13	13	16	5	10	11	12	12
Avarege	5.2					15.2					10				
Result (Test-control)	---					10					4.8				