

Fig. E-1
Figs. E-1A through E-1D Surgical procedure. **Fig. E-1A** Injection. **Figs. E-1B and E-1C** Creation of the defect. **Fig. E-1D** Interrupted Achilles tendon after the defect was created.



Fig. E-2
Figs. E-2A, 2-B, and 2-C Biomechanical testing. **Fig. E-2A** Biomechanical testing with proximal cryoclamp fixation and the distal mounting grid with osseous calcaneal fixation. **Figs. E-2B and E-2C** Tendon after load to failure testing.

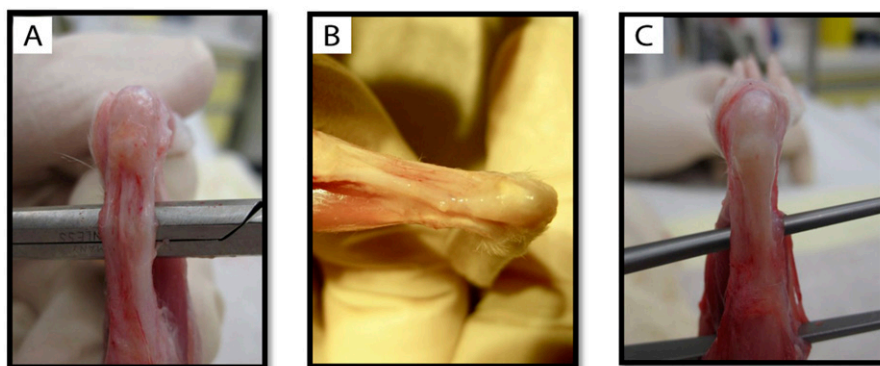


Fig. E-3
Figs. E-3A, E-3B, and E-3C Macroscopic assessment after a twenty-eight-day healing period. **Fig. E-3A** Distal end of the tendon. **Fig. E-3B** Complete tendon lateral view. **Fig. E-3C** Musculotendinous junction.

TABLE E-1 Hematoxylin and Eosin Staining After Fourteen Days

Group	No. of Specimens		Score*				
	Valid	Missing	Mean	Median	Standard Dev.	Min.	Max.
bFGF	6	0	11.5	11.5	2.4	8	15
eGFP	6	0	11.5	11.0	4.4	6	17
PBS	6	0	13.2	13.0	1.8	10	15

*Histological characteristics of the specimens were evaluated with a semiquantitative scoring system at fourteen days.

TABLE E-2 Hematoxylin and Eosin Staining After Twenty-eight Days

Group	No. of Specimens		Score*				
	Valid	Missing	Mean	Median	Standard Dev.	Min.	Max.
bFGF	6	0	8.2	7.5	1.9	6	11
eGFP	6	0	8.0	8.0	1.4	6	10
PBS	6	0	9.5	9.0	1.6	8	12

*Histological characteristics of the specimens were evaluated with a semiquantitative scoring system at twenty-eight days.

TABLE E-3 Type-I Procollagen Staining After Fourteen Days

Group	No. of Specimens		Score*				
	Valid	Missing	Mean	Median	Standard Dev.	Min.	Max.
bFGF	6	0	3.5	3.5	0.5	3	4
eGFP	6	0	3.1	3.0	0.4	3	4
PBS	6	0	2.3	2.0	0.5	2	3

*At fourteen days, type-I procollagen staining was scored as 0 (no staining), 1 (partial staining), or 2 (strong staining) for each third of the tendon, with a minimum score of 0 point to a maximum of 6 points.

TABLE E-4 Type-I Procollagen Staining After Twenty-eight Days

Group	No. of Specimens		Score*				
	Valid	Missing	Mean	Median	Standard Dev.	Min.	Max.
bFGF	6	0	4.8	5.0	0.8	4	6
eGFP	6	0	4.2	5.0	1.8	1	6
PBS	6	0	2.7	3.0	1.0	1	4

*At twenty-eight days, type-I procollagen staining was scored as 0 (no staining), 1 (partial staining), or 2 (strong staining) for each third of the tendon, with a minimum score of 0 point to a maximum of 6 points.