



endoret[®] (prgf[®])

Endogenous Regenerative Technology

BIOLOGICAL REGENERATION
OF OCULAR TISSUE



www.endoret.es



EYE DROP KIT

ENDORET® (PRGF®)

NEW GENERATION OF
AUTOLOGOUS EYE DROPS

*within your
grasp*



- Fast and simple to prepare, **no diluting required**
- **It accelerates tissue regeneration** thanks to its high concentration of growth factors that encourage cellular proliferation and migration ⁽⁷⁾
- High antifibrotic potential that encourages corneal transparency and **protects against corneal scarring and leucomas** ^{(7) (8)}
- Daily treatment **with no need to store in the fridge** as it can be used any time, anywhere ⁽³⁾

Treatment

Up to
3
months

Storage

at
-20°C

A dispenser

up to
72
hours
at room
temperature



INDICATIONS

- Moderate to Severe Dry Eye
- Persistent Epithelial Defects
- Corrective laser eye surgery
- Burns, perforations, inflammation

SURGERY KIT

ENDORET® (PRGF®)

CUSTOMISED EYE
SURGERY

*offering maximum
versatility...*

1. SINGLE PROTOCOL



4 FORMULATIONS



Fibrin Membrane
sutureable autologous,
strong, easy to handle
and completely
resorbable



**Liquid plasma
and Clot**
enriched with Growth
Factors



Eye drops
that maintain the growth
factor supply after surgery

*...to adapt the surgery
to each patient*

Pterygium Surgery Limbal Stem Cell Deficiency **Limbal Transplant** **Corneal Ulcers**
Glaucoma Surgery Symblepharon surgery
Ocular Burns **Corneal Defects** **Ocular Reconstructive Surgery**
Limbal Stem Cell Deficiency Limbal Transplant **Cornea Transplant** Pterygium Surgery
Glaucoma Surgery **Symblepharon surgery** Corneal Ulcers
Ocular Reconstructive Surgery Ocular Burns

1 SINGLE-USE KIT FOR EYE DROPS

FILTERING AND DISPENSING EQUIPMENT

- 2 filters
- 2 needles
- 1 wheel
- 1 dispenser holder
- 1 activation capsule
- 2 connectors
- 1 rack
- 32 single-dose devices
- transport bag

EXTRACTION SYSTEM

- 8 extraction tubes.
- 1 extraction set
- 5 ID labels



COLLECTION SYSTEM

- 2 self-draining devices
- 8 gauging needles
- 1 PTD2 (Plasma Transfer Device)

ACTIVATION SYSTEM

- 1 syringe
- 1 activator*

2 SINGLE USE KIT FOR OCULAR SURGERY

FILTERING AND DISPENSING EQUIPMENT

- 1 filter
- 1 needle
- 1 wheel
- 1 activation capsule
- 1 dispenser holder
- 1 connector
- 1 rack
- 16 single-dose devices
- transport bag

EXTRACTION SYSTEM

- 6 extraction tubes
- 1 extraction set
- 5 ID labels



COLLECTION AND GAUGING SYSTEM

- 2 gauging tubes
- 6 gauging needles
- 1 PTD2 (Plasma Transfer Device)
- 1 self-draining device
- 1 transfer syringe
- 1 transfer needle

ACTIVATION SYSTEM

- 1 syringe
- 1 activator*

*ACT1 Ampoule of ENDORET ACTIVATOR 1ML. (Calcium chloride)

ENDORET®
EQUIPMENT



· Work rack



· System V centrifuge.



· Plasmaterm® H oven.

ADVANTAGES

OF ENDORET TECHNOLOGY®

AUTOLOGOUS

Taken from the patient's blood, so **there are no side effects.** ⁽⁴⁾

OPTIMUM CONCENTRATION OF PLATELETS

An **appropriate concentration of platelets** that promote **greater cellular proliferation.** ⁽¹⁾⁽⁸⁾

PATENTED ACTIVATION

Allows controlled release of growth factors ^{(6) (8)}

LEUKOCYTE FREE FORMULATION

ENDORET® does not contain leukocytes. Including leukocytes increases pain and inflammation and accelerates fibrin deterioration. ⁽²⁾

NO DILUTIONS OR PRESERVATIVES

Same pH and osmolarity as tears for greater regenerative potential and bio-safety. ⁽³⁾⁽⁸⁾

REDUCES FIBROSIS

Greater **antifibrotic potential** compared to SA. ⁽⁷⁾

REPRODUCIBLE

Protocol is strictly defined and tested for the preparation process and clinical application.

VERSATILE

Different therapeutic formulations obtained in the same process help adapt the product to clinical needs. ⁽⁵⁾⁽⁶⁾

REFERENCES

- (1) Anitua E, Sánchez M, Prado R, Orive G. The type of platelet-rich plasma may influence the safety of the approach. *Knee Surg Sports Traumatol Arthrosc.* 2012. (IN VIVO)
- (2) Filardo G, Kon E, Pereira Ruiz MT, Vaccaro F, Guitaldi R, Di Martino A, Cenacchi A, Fornasari PM, Maricacci M. Platelet-rich plasma intra-articular injections for cartilage degeneration and osteoarthritis: single- versus double-spinning approach. *Knee Surg Sports Traumatol Arthrosc.* 2012. (IN VIVO)
- (3) Anitua E, Muruzabal F, Pino A, Merayo-Llodes J, Orive G. Biological Stability of Plasma Rich in Growth Factors Eye Drops After Storage of 3 Months. *Cornea.* 2013;32:1380-1386. (IN VITRO)
- (4) Anitua E, Sánchez M, Nurdén AT, Nurden P, Orive G, Andía I. New insights into and novel applications for platelet-rich fibrin therapies. *Trends Biotechnol.* 2006;24:227-234. (IN VIVO/IN VITRO)

- (5) Anitua E, Sánchez M, Orive G. Potential of endogenous regenerative technology for in situ regenerative medicine. *Adv Drug Deliv Rev.* 2010;62:741-752. (IN VIVO/IN VITRO)
- (6) Anitua E, Sánchez M, Orive G, Andía I. The potential impact of the preparation rich in growth factors (PRGF) in different medical fields. *Biomaterials.* 2007;28:4551-4560. (IN VIVO/IN VITRO)
- (7) PRGF eye drops stimulates scarless regeneration compared to autologous serum. Anitua E, de la Fuente M, Muruzabal F, Riestra A, Merayo-Llodes J, Orive G. *Exp Eye Res* 2015 (IN VITRO)
- (8) Autologous serum and plasma rich in growth factors in ophthalmology preclinical and clinical studies. Anitua E, Muruzabal F, Tayebba A, Riestra A, Perez V, Merayo-Llodes J, Orive G. *Acta ophthalmologica* 2015 (IN VIVO/IN VITRO)

SAFETY AND GUARANTEES

STABILITY GUARANTEE

Endoret eye drops® (PRGF®) remain stable for 3 months when frozen and 72 hours at room temperature, maintaining biological and biosafety potential intact. ⁽³⁾

REGULATORY GUARANTEES

Endoret® (PRGF®) has obtained the **CE marking** for use and sales in ophthalmology.

The ENDORET® system meets all regulatory requirements as a **closed technique**, according to the standard from the Spanish Agency for Medicine and Healthcare Products dated 23rd May 2013, establishing the classification for non substitutive therapeutic use of autologous plasma and its parts, components or derivatives, as medicine for human use.

EFFICIENCY GUARANTEES

BTI has large-scale worldwide clinical support published in this field, upholding its effectiveness with more than 175 international scientific publications.

ADDITIONAL GUARANTEES

BTI certifies its customers' specific training to use this technology.

BTI also guarantees traceability for its materials, and helps you provide your patients with all the necessary information.



BTI Comercial

San Antonio, 15 - 5º
01005 Vitoria-Gasteiz
(Álava) · SPAIN
Tel.: +34 945 140 024
Fax: +34 945 135 203
pedidos@bticomercial.com

Subsidiaries

GERMANY

Mannheimer Str. 17
75179 Pforzheim · Germany
Tel.: +49 (0) 7231 428060
Fax +49 (0) 7231 4280615
info@bti-implant.de

FRANCE

6 Avenue Neil Armstrong
Immeuble Le Lindbergh
33692 Merignac CEDEX · France
Tel.: (33) 06 45 07 36 78
info@bti-implant.fr

ITALY

Piazzale Piola, 1
20131 Milan · Italy
Tel.: (39) 02 7060 5067
Fax: (39) 02 7063 9876
bti.italia@bti-implant.it

MEXICO

Ejercito Nacional Mexicano 351, 3A
Col. Granada Delegación Miguel Hidalgo
Mexico DF · CP 11520 · Mexico
Tel.: (52) 55 52502964
Fax: (52) 55 55319327
bti.mexico@bti-implant.com

B.T.I.

Biotechnology Institute S.L.

Parque Tecnológico de Álava
Leonardo da Vinci, 14
01510 Miñano (Álava) Spain
bti.implantes@bti-implant.es

PORTUGAL

Praça Mouzinho de Albuquerque, 113, 5º
4100-359 Porto · Portugal
Tel.: (351) 22 120 1373
Fax: (351) 22 120 1311
bti.portugal@bticomercial.com

UK

870 The Crescent
Colchester Business Park · Colchester
Essex CO49YQ · UK
Tel.: (44) 01206580160
Fax: (44) 01206580161
info@bti-implant.co.uk

USA

1730 Walton Road
Suite 110
Blue Bell, PA 19422-1802 · USA
Tel.: (1) 215 646 4067
Fax: (1) 215 646 4066
info@bti-implant.us

Distributors

BELARUS

Tel. (+8) 232 41 00 36
ulibka132@rambler.ru
www.smile132.by

CROATIA

Tel.: 00385-1-58-013-02
bti@ortho-plan.com
www.ortho-plan.com

COLOMBIA

Tel.: +57 (316) 742 -6872
viglesias@rocol.com.co
www.rocol.com.co

GREECE

Tel.: 00302109248055
info@medicalcompass.gr

JAPAN

Tel.: 81-(0)3-3833-3986
ueki@mu-trade.com

LITHUANIA

Tel.: +370 5 2136648
Tel.: +370 652 29991
info@mpdental.lt

MOROCCO

Tel.: +212 661 880 824
innovatedentalmaroc@gmail.com

ROMANIA

Tel.: (40) 769 059 900
www.dent-a-america2000.ro
office@dent-a-america2000.ro

RUSSIA

Tel. (33) +7 499 -640 -83 -64
s.krikorian@surgitech.ru
www.surgitech.ru

TAIWAN

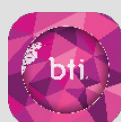
Tel.: +886 -2 -2647 -9077
kevin_lin@smart-linkx.com.tw

UKRAINE

Tel.: +380 (73) 031 31 31
info@biotechmedical.com.ua
www.biotechmedical.com.ua

www.bti-biotechnologyinstitute.es

NOTE: Consult your distributor for product availability in the different markets.



BTI APP

ENDORET® (PRGF®) TRAINING

iPhone/smartphone version

iPad/tablet version (with restricted area only for BTI customers)