MUSCULOSKELETAL SYSTEM
BTI Biotechnology Institute is a Spanish biomedicine company focused on the development of translational research projects (R&D+i). BTI is a world-level scientific leader in regenerative medicine using ENDORET in different fields of medicine.

ENDORET technology has extensive experience in the development of specific protocols for tissue regeneration, and is a pioneering technology manufactured exclusively by BTI Biotechnology Institute.

MORE THAN 150 INDEXED SCIENTIFIC PUBLICATIONS BACK THE EFFECTIVENESS AND BIOSAFETY OF ENDORET®

ENDORET® TECHNOLOGY
WHAT IS IT?

ENDORET® IS A BIOMEDICAL TECHNOLOGY AIMED AT STIMULATING TISSUE REGENERATION BY APPLYING AUTOLOGOUS PROTEINS

in such a way that provides the means necessary for the isolation and concentration of the blood proteins involved in tissue regeneration, as well as its suitable application at the injury site.
ACTIVE SUBSTANCES OF ENDORET®

GROWTH FACTORS
ENDORET stimulates tissue regeneration due to its content in growth factors, in greater concentrations than those of blood.

FIBRIN MATRIX
Enables the balanced and gradual release of a large number of molecules, including growth factors and other proteins.

ADVANTAGES OF ENDORET® TECHNOLOGY

OPTIMUM CONCENTRATION OF PLATELETS
The right concentration of platelets affects the final efficacy.¹ (²)

FREE FORMULATION OF LEUKOCYTES
The inclusion of leukocytes increases the pain and inflammation (³) and accelerates the deterioration of the fibrin.⁴

CONTROLLED ACTIVATION
Enables the formation of the fibrin matrix in situ and the gradual release of growth factors, maintaining its efficacy over time.⁵ (⁶)

AUTOLOGOUS
Taken from the patient’s blood, so there are no side effects.⁷

REPRODUCIBLE
The protocol for the preparation process and its clinical application is strictly defined and tested.

VERSATILE
4 preparations obtained in the same process means we can adapt the product to the patient’s clinical needs.⁸ (⁹)
VERSATILITY

The versatility of ENDORET technology enables it to be adapted to different clinical uses. (8)

APPLICATION IN THE MUSCULOSKELETAL SYSTEM

The objective of treatment with plasma rich in growth factors is the regeneration of the affected tissues in lesions in:

- Bones
- Tendons
- Muscles
- Ligaments
- Spine
- Nerves

to accelerate recovery times and achieve patient comfort. (10) (11) (12) (13) (14) (15)

REVIVE THE TISSUE (16) (17)

<table>
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<tr>
<th>HAEMOSTASIS</th>
<th>INFLAMMATION</th>
<th>PROLIFERATION</th>
<th>REMODELLING</th>
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NATURAL WOUND-HEALING PROCESS

PROCESS ACCELERATED WITH ENDORET TECHNOLOGY®

(Reduction in recovery time)
The application of Endoret technology is a Medicinal Product for Human Use that complies with all the regulations required.

**SAFETY AND REGULATORY ASSURANCE**

**ENDORET® DISPOSABLE KIT**
SINGLE-USE KIT

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**SYSTEM OF BLOOD EXTRACTION**

- Extraction tubes
  - (EDK1-SCP: 2 tubes / EDK1: 4 tubes / EDK2: 8 tubes)
- Winged blood collection set (1)
- Identification labels (5)

**SYSTEM OF FRACTIONING**

- Fractioning tubes
  - (EDK1-SCP: 2 tubes / EDK1: 4 tubes / EDK2: 8 tubes)
- Plasma Transfer Device PTD2 (1)
- Guide needles
  - (EDK1-SCP: 2 needles / EDK1: 4 needles / EDK2: 8 needles)
- Activator (ampoule of PRGF-Endoret®-Activator) (1)
- Activation syringe 29G (1)

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**EQUIPMENT**

- System V centrifuge.
- Plasmaterm® H furnace
- Activation containers
- Work rack

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Anitua E. Plasma rich in growth factors: preliminary results of use in the preparation of future sites for regeneration. Mikel Sánchez a, Eduardo Anituab,c, Diego Delgado d, Peio Sanchezd, Roberto Prado b, Gorka Oriveb,c,e,f and Sabino Padillab,c. EXPERT OPINION ON BIOLOGICAL THERAPY, 2016 http://dx.doi.org/10.1080/14712598.2017.1259409

Platelet-rich plasma, a source of autologous growth factors and biomimetic scaffold for peripheral nerve regeneration. (15)


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Scientific studies: