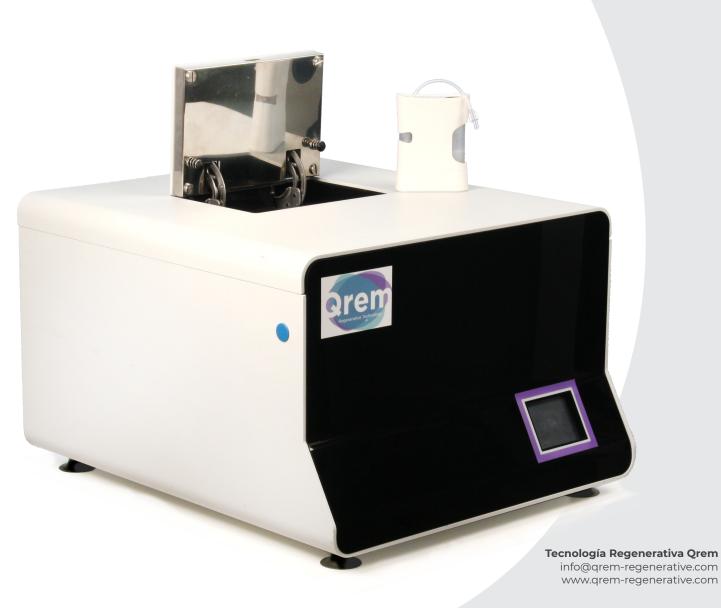


Qrem® Cytokine

Autologous Cytokine Rich Serum

Innovative technology (Lab-in-a-Box) to obtain the cytokines involved in regeneration

ANOTHER STEP FORWARD IN REGENERATIVE MEDICINE



Qrem® Cytokine is a bioengineering system to obtain Autologous Cytokine Rich Serum (ACRS) from the patient's own blood

Perfect for outpatient treatments or in the operating theatre:

- Closed, automatic system that requires no manipulation
- · Quick and very easy to use

Greater biological potential:

- ACRS directly contains the active substance, the cytokines and growth factors
- ACRS doesn't contain cells, platelets or fibrinogen

ACRS is a cell-free serum with a balanced concentration of cytokines from plasma, white blood cells and platelets

PLASMA

Qrem[®] Cytokine is able to recover all the IGF-1, a very important factor for collagen synthesis in tendons¹ and for chondrogenesis².

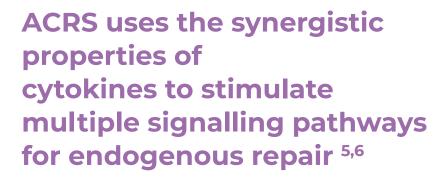
WHITE BLOOD CELLS

Qrem® Cytokine activates white blood cells to obtain anti-inflammatory cytokines, such as IL-10 and IL-4, which take part in the balance between M1 (inflammatory) and M2 (anti-inflammatory) macrophages^{3,4}.

PLATELETS

Qrem® Cytokine also activates platelets to obtain growth factors (PDGF, VEGF, TGF-ß, EGF, FGF and HGF)





AUTOLOGOUS CYTOKINE RICH SERUM

Anti-inflammatory activity: IGF-1, HGF, PDGF, TGF-B, IL-4

Healing activity: IL-10, HGF, FGF, VEGF, TGF-B

Proliferative activity:

IGF-1, TGF-ß, IL-4, IL-10, EGF

Angiogenic activity: FGF-1, FGF-2, VEGF

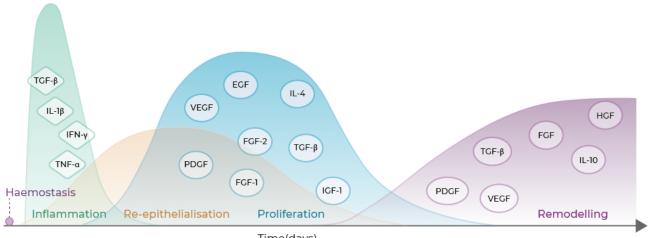
Polarising activity:

IL-10, IL-4

RESIDUAL SECONDARY CLOT

RED BLOOD CELLS

Role of cytokines in the regenerative cycle



How does Qrem[®] Cytokine work?

Patented process to activate platelets and white blood cells requires no incubation or addition of exogenous calcium.

Scan the QR code to see how it works.



www.qrem-regenerative.com/como-funciona-qrem-cytokine



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About Qrem Regenerative Technology

Qrem is a Spanish company founded in 2016 that develops, manufactures and sells medical devices for regenerative medicine.

Our mission is to drive the standardisation and scalability of autologous regenerative therapies, making Lab-in-a-Box bioengineering systems available to physicians so they can deliver therapies in their own offices easily and safely to reach as many patients as possible thanks to their cost-effectiveness.

Learn more about Orem on:











www.qrem-regenerative.com

