

Circuito funzionalmente chiuso composto da una sacca di preparazione e da una sacca di diluizione pre-connesse per garantire la sterilità.

La sacca all'interno contiene <mark>specifiche sfere di vetro</mark> che sono state ideate e sviluppate per <mark>accelerare la coagulazione.</mark>

Plastic Containers and the whole-blood clotting test: glass remains the best option. Trans R Soc Trop Med Hyg 2006 Dec 12;100(12): 1168-72. Epub 2006 Jun 12. Richard Stone, Jamie Seymour, Oliver Marshall.
Initiation of blood coagulation by glass and related surfaces. J. Margolis - The Journal of physiology, 1957 - europepmc.org - Author: Margolis J. - Journal: The Journal of physiology [1957/06].

Filtro antibatterico 0,2 μm per eventuali diluizioni con soluzioni.

Filtro in linea anti- aggregati.

La dimensione dei tubi è stata studiata <mark>per adattarsi ai più comuni sistemi di connessione sterile.</mark>

Luer-lock per garantire **connessioni sicure**.

Configurazione per ogni tipo di protocollo terapeutico.

# **EYE DROPS WITH SERUM**

Human tears are rich in "natural unique elements" and growth factors, such as vitamins, fibronectin, cytokines, albumin, important for maintaining a healthy corneal and conjunctival epithelium. These components cannot be found in artificial tear preparations which often contain preservatives, stabilizers and other additives, which potentially induce allergic reactions. Eye drops from autologous serum resolve these drawbacks with their tear-like biochemical characteristics and supply nutritional components. Therefore it is used "not only to humidify the eye surface, but also to provide nutritional and growth factors necessary to maintain cellular feasibility in the epithelial repair processes, and bactericide components which reduce the risk of contamination and infection".<sup>1</sup>

#### COMPARATIVE CONCENTRATIONS OF TEARS AND AUTOLOGOUS SERUM OF THE MAIN EPITHELIOTROPHIC FACTORS

	EGF (ng/ml) epithelial growth factor	TGF-β (ng/ml) transforming growth factor	VITAMIN A (mg/ml)	LYSOZYME (mg/ml)	FIBRONECTIN (µg/ml)
TEARS	0.2 - 3.0	2 - 10	0.02	1 - 4	21
SERUM	0.5	6 - 33	46	6	205

1 - López-García J. S., García-Lozano I., Rivas L., Martínez-Garchitorena J. - Use of autologous serum in ophthalmic practice - Arch Soc Esp Oftalmol 2007; 82: 9-20.

### COMPARISON OF AUTOLOGOUS SERUM EYE DROPS WITH CONVENTIONAL THERAPY

Severe dry eye and ocular surface disease constitute a major management challenge. In this study, patients had significant ocular surface staining and symptomatology unresponsive to maximal conventional therapeutic modalities, including intensive preservative free tear supplements and punctal occlusion. The persistence of active ocular surface disease and symptoms with conventional treatments has been attributed to a combination of preservatives and increase susceptibility of corneal epithelium to toxicity in dry eye syndrome. The rationale underlying the proposed advantage of serum derivatives over conventional treatment was the presence of growth factors in tears, which were also found in serum.<sup>2</sup>

2 - B. A. Noble, R S K Loh, S. MacLennan, K. Pesudovs, A. Reynolds, L. R. Bridges, J. Burr, O. Stewart, S. Quereshi - Comparison of autologous serum eye drops with conventional therapy in a randomised controlled crossover trial for ocular surface disease - Br J Ophthalmol 2004;88:647-652.

## PLASTIC CONTAINERS AND THE WHOLE-BLOOD CLOTTING TEST: GLASS REMAINS THE BEST OPTION

R. Stone et al. Trans R Soc Trop Med Hyg $100\,(12),\,1168\text{-}1172.\,2006$  Jun12.

# PEFVOL RIEMPIMENTO PER FLACONEVOLUME SIERO (NON DILUITO)YDB1500 - 150 ml0 - 100 ml



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