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EYE DROP SYSTEM **YDB**

THE *EASY TO USE* AND CERTIFIED DEVICE
THAT REDUCES SERUM EYE DROPS
PRODUCTION TIME.

Functionally closed circuit guarantees sterility thanks to pre-connected preparation and dilution bags.

The bag contains **special glass beads** that have been designed to **accelerate blood clotting**.

1) *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.

2) *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].

A line with a **0.2 µm anti-bacterial filter** for diluting with solutions, if requested.

In-line **anti-aggregate filter**.

The size of the tubes has been studied **to adapt to the most commonly used sterile connection systems**.

Luer-locks guarantee **safe connection**.

Configuration for **any kind of treatment protocol**.

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”.¹

COMPARATIVE CONCENTRATIONS OF TEARS AND AUTOLOGOUS SERUM OF THE MAIN EPITHELIOTROPIC 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-Garchitorea 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.²

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), 1168-1172. 2006 Jun 12.

YDB

REF	BAG FILLING VOLUME	SERUM VOLUME (WITHOUT DILUTION)
YDB150	0 - 150 ml	0 - 100 ml



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All products are  1936 certified in accordance with European Directives. Biomed Device is a certified company:



ISO 9001:2015



EN ISO 13485:2016

Management System
ISO 9001:2015
EN ISO 13485:2016



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