



Simplifying Serum Tears

WHAT ARE VITAL TEARS?

Vital Tears serum eye drops are made from a patient's own blood and are preservative free. Instead of using artificial tears, we incorporate patients' blood with the goal of better mimicking natural tears.

- Vital Tears come in **concentrations of 10%, 15%, 20%, 30%, and 40%.**
- Vital Tears may be ordered as a **single 2-3 month supply** or as an **ongoing subscription.**
- Vital Tears are provided in **3ml aliquots** which last **1 week in refrigeration** and **6 months frozen.**
- Patients can expect to receive their Vital Tears **as quickly as 48 hours** after the blood collection.



HOW DO TEARS AND SERUM COMPARE?

	TEARS	SERUM
pH	7.4	7.4
Osmolality (SD)	298 (10)	296
EGF (ng/ml)	0.2–3.0	0.5
TGF- β (ng/ml)	2–10	6–33
Vitamin A (mg/ml)	0.02	46
Lysozyme (mg/ml) (SD)	1.4 (0.2)	6
SIgA (μ g/ml) (SD)	1190 (904)	2
Fibronectin (μ g/ml) (SD)	21	205

Geerling G, MacLennan S, Hartwig D. Autologous serum eye drops for ocular surface disorders. The British Journal of Ophthalmology. 2004;88(11):1467-1474. doi:10.1136/bjo.2004.044347.

HOW ARE VITAL TEARS MADE?

Once the patient's blood has been drawn, the plasma is diluted with balanced salt solution according to the specific needs of the patient and the recommendations of their physician. The typical serum concentration ranges from 20 to 40 percent.

After the serum tears are formulated, they must remain frozen until they are ready for use and should be refrigerated while in use. The primary safety consideration for autologous serum-based eye drops is the risk of microbial growth during storage. Care is taken in the preparation of these eye drops to ensure that they are prepared in a sterile manner, and patients must follow proper care and use instructions to minimize contamination.



LEARN MORE AT
vitaltears.org

OR CALL TOLL-FREE
(800) 360-9592



VITAL TEARS AUTOLOGOUS SERUM EYE DROPS

Provide Your Patients With Rapid Access to Serum Tears

WHAT MAKES OUR SERVICE SUPERIOR?

SCHEDULING

A Vital Tears staff member will work directly with the patient to schedule their blood draw at the patient's preferred time and location. We offer more than 400 collection sites nationwide as well as mobile services to conduct blood draws in patients' homes.

EDUCATION

We provide patients with the information they need and answer all their questions about the Vital Tears process.

PRODUCTION

Once the blood is collected, it is sent to our medical laboratory where highly-trained technicians produce the serum tears in an aseptic environment under a laminar flow hood.

SHIPPING

The patient's Vital Tears are then shipped to their home for delivery along with instructions on use and information on storage. Our Client Services team will contact the patient to explain their options and collect payment.

MONITORING

Our Client Services team is available to speak with patients and help answer questions they may have about Vital Tears.

MANAGEMENT

Our Client Services team will continue to work directly with the patient to help them get their refills of Vital Tears in a timely manner.



WHO IS VITAL TEARS?

Our mission is to ensure convenient, universal access to serum tears for anyone in the United States.

We formed Vital Tears in response to corneal specialists' call for a more convenient method of providing patients with serum tears.

Our powerful collaboration between **Saving Sight**, a frontrunner in eye banking, and **Stephens Instruments**, a leading ophthalmic device manufacturer, has enabled us to offer high-quality, customized serum tears at an unprecedented speed.

Become a Provider

VISIT vitaltears.org OR CALL

(800) 360-9592



 **Vital Tears™**
THE LEADER IN SERUM TEARS