

Autologous Serum Eye Drop Protocol

Blood Lab: For patient convenience, blood can be drawn at either of two facilities:

John Theurer Cancer Center
92 Second St. (1st Floor) Hackensack, NJ 07601
Call Direct Line to Schedule Appointment:
551 996-5184 Stacey Gusera or
secondary number: 551 996-5806 Alla Kolodenker
****Monday to Friday, 9:00Am to 4:00PM****

TomoTherapy Center
155 State Street, Hackensack, NJ 07601
Call Direct Line to Schedule Appointment:
551 996-5184 Stacey Gusera or
secondary number: 551 996-5806 Alla Kolodenker
****WEDNESDAY'S Only, 12-2PM, BY APPOINTMENT****

Blood is collected following the same procedure as for all blood donors, except the sample is made into a sterile blood pack without anticoagulant (some labs us SST tubes and this seems to work fine also). 100 ml of serum is ideal; approximately 40-60% serum is recovered after processing. Routine virology testing should be preformed for HIV and Hepatitis. The donation should then be allowed to sit for 15-20 minutes. **They are then spun down in a centrifuge for 15-20 minutes. The serum is then drawn off the gel barrier and placed in new tubes and frozen immediately.** The lab then calls Town & Country Compounding to make arrangements to get the frozen serum to our compounding lab in Ridgewood, NJ. Our address and contact information is below.

Town & Country Compounding Pharmacy:

Town & Country Compounding Pharmacy, upon receipt of the frozen serum allows it to defrost. Once defrosted the serum is mixed aseptically in our clean room with Preservative Free Normal Saline to the dilution, (or 100% solution), as prescribed by the Physician. Town & Country Compounding aseptically filters the serum through a .2 micron filter, and transfers the serum into dropper bottles for use. We typically supply 12 vials with 4ml, which is approximately a 3 months supply. We (T&C) then will call the patient to arrange for pick up, or we can deliver to the patient's home, by our drivers, or Federal Express.

Autologous Serum Eye Drop Patient:

The patient upon receipt of the autologous serum eye drops should immediately store all unopened bottles in the freezer. They should use one bottle at a time for 1 week and store it in the refrigerator between uses. After one week, bottle should be discarded, and a new bottle opened and then the process can be repeated again.

The Serum eye drops stored in the freezer are stable for up to 3 months, with the concentration of growth factors, Vitamin A and fibronectin in 100% and 20% serum diluted with NaCl.

(Tsubota et. al, Treatment of dry eye by autologus serum, Br J Ophthalmol 1999;83:390-5.)

