

**KAISER MEDICAL CARE PROGRAM
ORANGE COUNTY AREA
POLICIES AND PROCEDURES**

| | | | |
|----------|---|-------------|-----------|
| TITLE: | CLINICAL LABORATORY P& P MANUAL | INDEX NO: | 07-255-01 |
| SECTION: | SPECIMEN PROCESSING | ORGIN DATE: | 9/2016 |
| SUBJECT: | COLLECTION AND PROCESSING OF AUTOLOGOUS TEARS | | |

POLICY Autologous serum eyedrops may only be ordered by corneal surgeon ophthalmologist sub-specialists. This procedure defines the system for collection, processing and tracking of autologous serum samples for autologous tear preparation by a compounding pharmacy.

PURPOSE The use of autologus serum in eye drop form is an effective ophthalmologic moisturizing treatment for clinical conditions affecting the ocular surface when other treatment options prove ineffective. The product has biochemical properties similar to normal tears. They contain components such as albumin, fibronectin, Vitamin A, and growth factors that have an epitheliotropic effect on the ocular surface epithelial cells.

SAFETY All specimens should be handled as though capable of transmitting infectious diseases. Wear appropriate personal protective equipment when handling patient samples. Refer to Laboratory Safety Policy and Procedure Manual Infection Control Section.

PROCEDURE SPECIMEN COLLECTION:

1. Laboratory orders for autologous tears are ordered in Health Connect, **AUTOLOGOUS SERUM EYEDROPS [227397]**. California Pharmacy and Compounding Company form must be completed by physician.
2. Specimen collection for autologous tear specimens is only performed at KM2 and ASN.
3. Specimens are collected Monday-Friday from 7:30 am to 12:00 pm.
4. Specimens must be refrigerated and sent by courier before 3:00 pm Monday-Friday.
5. Follow specimen collection procedure for Blood Culture. Refer to Specimen Collection 07-075 - Blood Cultures P&P. Use 1.5 Frepp Chlorhexadine to cleanse the collection site.
6. Collect 20 - 30 GLD6 specimen tubes from patient, avoiding hemolysis. Amount depends on strength of drops ordered:
 - 30 tubes for 100% drops
 - 20 tubes for diluted drops (any other strength)
7. All tubes must be full.
8. Send specimens with California Pharmacy and Compounding Company form in a biohazard bag to main laboratory through pneumatic tube system.

SPECIMEN PROCESSING:

1. Upon specimen receipt in hospital laboratory, verify test requested and patient identification labels against California Pharmacy and Compounding Company form.
2. Allow specimens to fully clot for **2 hours** before centrifuging.
3. Centrifuge specimen tubes 10 minutes in Stat Spin or 15-20 minutes in the Silencer centrifuge to separate serum from specimen.
4. Label 10-12 screw cap conical tubes with patient name, medical record number, date of birth, and date/time of collection. Additional tubes can be used if needed.
5. Aliquot serum from centrifuged specimen into conical tubes and refrigerate immediately. Serum can be pooled to minimize number of tubes sent.

**KAISER MEDICAL CARE PROGRAM
ORANGE COUNTY AREA
POLICIES AND PROCEDURES**

| | | | |
|----------|---|--------------|-----------|
| TITLE: | CLINICAL LABORATORY P& P MANUAL | INDEX NO: | 07-255-01 |
| SECTION: | SPECIMEN PROCESSING | ORIGIN DATE: | 9/2016 |
| SUBJECT: | COLLECTION AND PROCESSING OF AUTOLOGOUS TEARS | | |

SPECIMEN SEND OUT

1. Specimens are sent on ice packs to California Pharmacy and Compounding Center by courier for processing into Autologous Tears.
2. Log specimen in the Outside Lab log.
3. Package refrigerated specimens for shipment via courier with copy of Non-Health Connect Lab Test Request form to:

California Pharmacy and Compounding Center
4000 Birch Street
Suite 120
Newport Beach, CA 92653

4. Call courier for pickup before 3:00 PM.

REFERENCE

Autologous Serum Eyedrops Ophthalmology Kaiser Northern California Clinic Protocol
California Pharmacy and Compounding Center