

### Catalog Numbers

**CLR-525-10** – Package of 10 tubes

**CLR-525-40** – Package of 40 tubes

Each tube contains 50µl of CataKlear

### Intended Use

For the *in-vitro* diagnostic use to remove visible amounts of turbidity due to lipids in serum.

### Clinical Significance

Visible turbidity, due to elevated amounts of lipids, may interfere with the accurate determination of analyte concentrations by spectrophotometric/colorimetric methods. CataKlear can help clear lipid interferents from serum samples.

### Method Principle

CataKlear is a stable, liquid colloidal nanoparticle dispersion of selectively sized silicone oxides, various surfactants and buffering components. The lipid components in serum are released through the activity of the surfactants and attach to the silicone oxide nano-particles. Upon centrifugation, these lipid-silicone oxide nanoparticles are spun to the bottom of the centrifuge tube, leaving a lipid free layer of serum ready for testing.

### Precautions

Handle this reagent using good laboratory practices. Avoid contact with skin and eyes. If contact occurs, wash affected area with cold water. Clean spills immediately. Refer to the Catachem CataKlear SDS for additional information.

### Reagent Storage and Stability

CataKlear is best stored at room temperature [15-30°C (59-86°F)] away from direct light. Cold or cool storage [2 - 15°C (35-59°F)] is also acceptable. Do not freeze or store at or below 0°C (32°F). When stored as directed, the reagent is stable until the expiration date stated on the label.

### Reagent Preparation

CataKlear is supplied in packs of 10 or 40 screw-topped, micro-centrifuge tubes, each pre-filled with 50µl of CataKlear solution. CataKlear is packaged ready for use. No preparation is required.

### Specimen Collection and Stability

Serum is the preferred sample. Serum should be separated immediately from the clot. Lithium heparin plasma samples can also be used, but may affect results on certain analytes. Follow instructions for storage for each serum tube until ready for treatment with CataKlear.

### Materials Provided

CataKlear reagent

### Materials Required but Not Provided

Volumetric pipettes  
Centrifuge

### Method Procedure

1. Remove one CataKlear tube from the pack and tap gently to ensure liquid is at the bottom of the tube.
2. Pipette 0.5ml sample into tube, mix well, and cap the tube. Let stand for 10 minutes at room temperature.
3. Centrifuge the tube at speeds of 5,000G or more for 12 minutes (or longer) until the sample has been cleared of lipemia and the fat has been deposited in a tight button on the bottom of the tube.  
*Please Note: It is advisable for each user to establish their own procedure because centrifuges' actual speeds can vary.*
4. Carefully remove supernatant and place in a separate tube ready for testing.

**NOTE: all analytical results after testing should be multiplied by the dilution factor of 1.1.**

### Additional Information

Research has shown that CataKlear is unlikely to interfere with the assay of the following analytes: Albumin, ALP, ALT, AST, Amylase, Creatinine, Creatine Kinase, Chloride, Cortisol, Ferritin, Iron, LDH, Inorganic Phosphate, Potassium, Transferrin, Urea (BUN), and Uric Acid. Details of various studies are available upon request. As users will be utilizing a variety of reagent and analyzer combinations, we strongly recommend that each laboratory establish performance characteristics for CataKlear with their own analytical system.

