



APPLICATION NOTE – PLASMA PROTEIN COLLECTION

Application Need: Blood is made up of a liquid portion and a cellular portion. The cellular portion contains white blood cells that fight infection, red blood cells that carry oxygen, and platelets that aid clotting. Plasma is the liquid portion of your blood. It has a number of vital functions in bleeding and infection control. It contains proteins and antibodies, which are produced by the immune system to fight diseases. Plasmapheresis is a blood donation process in which you only donate the liquid portion of your blood. The cellular portion is separated from the plasma and then returned to you. Commercial Plasma Collection Centers are located nationwide to accept plasma donation. Patients are reimbursed for their donation.

The Problem: Collection Centers will allow patients to donate twice a week, with a minimum day between donations. The body will replenish the proteins within a 24 to 48 hours time period. It is very important that the Plasma Protein concentration be measured to determine the quality of the plasma. Low levels of protein concentration would indicate that the body has not sufficiently regenerated the appropriate protein levels. The Collection Center needs a fast and accurate method to determine the quality of a patient's plasma.

The Solution: The Reichert refractometers are ideal for measuring Plasma Protein concentration. It is a quick, optical measurement, which has been proven over the years to be both accurate and precise. Reichert offers the Gold Standard TS Meter (Goldberg) for many years. Reichert also offers the TS Meter-DSP hand held digital refractometer to measure plasma protein.

- ✓ Easy to use by personnel with limited laboratory training ✓ Plasma Protein Concentration range of 2.5 to 15 grams/100mL ✓ Automatic temperature compensation produces accuracy and precision
- ✓ TS Meter-DSP offers digital readout that eliminates any operator error or interpretation ✓ TS Meter-DSP offers Calibration log and Reading log available for record keeping

Product Recommendations:

Reichert TS Meter - DSP Digital Handheld Refractometer, Reichert Cat # 13970000

Reichert TS Meter Goldberg Refractometer, Reichert Cat # 1310400A