§ 493.1265  
(d) The laboratory must document all control procedures performed, as specified in this section.

§ 493.1265  Standard: Virology.  
(a) When using cell culture to isolate or identify viruses, the laboratory must simultaneously incubate a cell substrate control or uninoculated cells as a negative control material.  
(b) The laboratory must document all control procedures performed, as specified in this section.

§ 493.1267  Standard: Routine chemistry.  
For blood gas analyses, the laboratory must perform the following:  
(a) Calibrate or verify calibration according to the manufacturer’s specifications and with at least the frequency recommended by the manufacturer.  
(b) Test one sample of control material each 8 hours of testing using a combination of control materials that include both low and high values on each day of testing.  
(c) Test one sample of control material each time specimens are tested unless automated instrumentation internally verifies calibration at least every 30 minutes.  
(d) Document all control procedures performed, as specified in this section.

§ 493.1269  Standard: Hematology.  
(a) For manual cell counts performed using a hemocytometer—  
(1) One control material must be tested each 8 hours of operation; and  
(2) Patient specimens and control materials must be tested in duplicate.  
(b) For all nonmanual coagulation test systems, the laboratory must include two levels of control material each 8 hours of operation and each time a reagent is changed.  
(c) For manual coagulation tests—  
(1) Each individual performing tests must test two levels of control materials before testing patient samples and each time a reagent is changed; and  
(2) Patient specimens and control materials must be tested in duplicate.  
(d) The laboratory must document all control procedures performed, as specified in this section.

§ 493.1271  Standard: Immunohematology.  
(a) Patient testing.  
(1) The laboratory must perform ABO grouping, D(Rho) typing, unexpected antibody detection, antibody identification, and compatibility testing by following the manufacturer’s instructions, if provided, and as applicable, 21 CFR 606.151(a) through (e).  
(2) The laboratory must determine ABO group by concurrently testing unknown red cells with, at a minimum, anti-A and anti-B grouping reagents. For confirmation of ABO group, the unknown serum must be tested with known A1 and B red cells.  
(3) The laboratory must determine the D(Rho) type by testing unknown red cells with anti-D (anti-Rho) blood typing reagent.  
(b) Immunohematological testing and distribution of blood and blood products.  
Blood and blood product testing and distribution must comply with 21 CFR 606.100(b)(12); 606.160(b)(3)(ii) and (b)(3)(v); 610.40; 640.5(a), (b), (c), and (e); and 640.11(b).  
(c) Blood and blood products storage.  
Blood and blood products must be stored under appropriate conditions that include an adequate temperature alarm system that is regularly inspected.  
(1) An audible alarm system must monitor proper blood and blood product storage temperature over a 24-hour period.  
(2) Inspections of the alarm system must be documented.  
(d) Retention of samples of transfused blood.  
According to the laboratory’s established procedures, samples of each unit of transfused blood must be retained for further testing in the event of transfusion reactions. The laboratory must promptly dispose of blood not retained for further testing that has passed its expiration date.  
(e) Investigation of transfusion reactions.  
(1) According to its established procedures, the laboratory that performs compatibility testing, or issues blood or blood products, must promptly investigate all transfusion reactions occurring in facilities for which it has investigational responsibility and make recommendations to the medical