§ 862.3850 Sulfonamide test system.

(a) Identification. A sulfonamide test system is a device intended to measure sulfonamides, any of the antibacterial drugs derived from sulfanilamide, in human specimens. Measurements obtained by this device are used in the diagnosis and treatment of sulfonamide overdose and in monitoring sulfonamide levels to ensure appropriate therapy.

(b) Classification. Class I.

§ 862.3870 Cannabinoid test system.

(a) Identification. A cannabinoid test system is a device intended to measure any of the cannabinoids, hallucinogenic compounds endogenous to marijuana, in serum, plasma, saliva, and urine. Cannabinoid compounds include delta-9-tetrahydrocannabinol, cannabinol, and cannabichromene. Measurements obtained by this device are used in the diagnosis and treatment of cannabinoid use or abuse and in monitoring levels of cannabinoids during clinical investigational use.

(b) Classification. Class II.

§ 862.3880 Theophylline test system.

(a) Identification. A theophylline test system is a device intended to measure theophylline (a drug used for stimulation of the muscles in the cardiovascular, respiratory, and central nervous systems) in serum and plasma. Measurements obtained by this device are used in the diagnosis and treatment of theophylline overdose or in monitoring levels of theophylline to ensure appropriate therapy.

(b) Classification. Class II.

§ 862.3900 Tobramycin test system.

(a) Identification. A tobramycin test system is a device intended to measure tobramycin, an aminoglycoside antibiotic drug, in plasma and serum. Measurements obtained by this device are used in the diagnosis and treatment of tobramycin overdose and in monitoring levels of tobramycin to ensure appropriate therapy.

(b) Classification. Class II.

§ 862.3910 Tricyclic antidepressant drugs test system.

(a) Identification. A tricyclic antidepressant drugs test system is a device intended to measure any of the tricyclic antidepressant drugs in serum. The tricyclic antidepressant drugs include imipramine, desipramine, amitriptyline, nortriptyline, protriptyline, and doxepin. Measurements obtained by this device are used in the diagnosis and treatment of chronic depression to ensure appropriate therapy.

(b) Classification. Class II.

§ 862.3950 Vancomycin test system.

(a) Identification. A vancomycin test system is a device intended to measure vancomycin, an antibiotic drug, in serum. Measurements obtained by this device are used in the diagnosis and treatment of vancomycin overdose and in monitoring the level of vancomycin to ensure appropriate therapy.

(b) Classification. Class II.

PART 864—HEMATOLOGY AND PATHOLOGY DEVICES

Subpart A—General Provisions

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§ 864.1 Scope.

(a) This part sets forth the classification of hematology and pathology devices intended for human use that are in commercial distribution.

(b) The identification of a device in a regulation in this part is not a precise description of every device that is, or will be, subject to the regulation. A manufacturer who submits a premarket notification submission for a device under Part 807 may not show merely that the device is accurately described by the section title and identification provisions of a regulation in this part, but shall state why the device is substantially equivalent to other devices, as required by §807.87.

(c) References in this part to regulatory sections of the Code of Federal Regulations are to Chapter I of Title 21, unless otherwise noted.

[52 FR 17732, May 11, 1987]

§ 864.3 Effective dates of requirement for premarket approval.

A device included in this part that is classified into class III (premarket approval) shall not be commercially distributed after the date shown in the regulation classifying the device unless the manufacturer has an approval under section 515 of the act (unless an exemption has been granted under section 520(g)(2) of the act). An approval under section 515 of the act consists of FDA’s issuance of an order approving an application for premarket approval (PMA) for the device or declaring completed a product development protocol (PDP) for the device.

(a) Before FDA requires that a device commercially distributed before the enactment date of the amendments, or a device that has been found substantially equivalent to such a device, has an approval under section 515 of the act FDA must promulgate a regulation under section 515(b) of the act requiring such approval, except as provided in paragraph (b) of this section. Such a regulation under section 515(b) of the act shall not be effective during the grace period ending on the 90th day after its promulgation or on the last day of the 30th full calendar month after the regulation that classifies the device into class III is effective, whichever is later. See section 501(f)(2)(B) of the act. Accordingly, unless an effective date of the requirement for premarket approval is shown in the regulation for a device classified into class III in this part, the device may be commercially distributed without FDA’s issuance of an order approving a PMA or declaring completed a PDP for the device. If FDA promulgates a regulation under section 515(b) of the act requiring premarket approval for a device, section 501(f)(2)(A) of the act applies to the device.

(b) Any new, not substantially equivalent, device introduced into commercial distribution on or after May 28, 1976, including a device formerly marketed that has been substantially altered, is classified by statute (section 513(f) of the act) into class III without any grace period and FDA must have issued an order approving a PMA or declaring completed a PDP for the device before the device is commercially distributed unless it is reclassified. If FDA knows that a device being commercially distributed may be a “new” device as defined in this section because of any new intended use or other reasons, FDA may codify the statutory classification of the device into class III for such new use. Accordingly, the
regulation for such a class III device states that as of the enactment date of the amendments, May 28, 1976, the device must have an approval under section 515 of the act before commercial distribution.

[52 FR 17732, May 11, 1987]

§ 864.9 Limitations of exemptions from section 510(k) of the Federal Food, Drug, and Cosmetic Act (the act).

The Food and Drug Administration’s (FDA’s) decision to grant an exemption from the requirement of premarket notification (section 510(k) of the act) for a generic type of class I device is based upon the existing and reasonably foreseeable characteristics of commercially distributed devices within that generic type. Because FDA cannot anticipate every change in intended use or characteristic that could significantly affect a device’s safety or effectiveness, manufacturers of any commercially distributed class I device for which FDA has granted an exemption from the requirement of premarket notification must still submit a premarket notification to FDA before introducing or delivering for introduction into interstate commerce for commercial distribution the device when:

(a) The device is intended for a use different from its intended use before May 28, 1976, or the device is intended for a use different from the intended use of a preamendments device to which it had been determined to be substantially equivalent; e.g., the device is intended for a different medical purpose, or the device is intended for lay use where the former intended use was by health care professionals only; or

(b) The modified device operates using a different fundamental scientific technology than that in use in the device before May 28, 1976, e.g., a surgical instrument cuts tissue with a laser beam rather than with a sharpened metal blade, or an in vitro diagnostic device detects or identifies infectious agents by using a deoxyribonucleic acid (DNA) probe or nucleic acid hybridization technology rather than culture or immunoassay technology.

[54 FR 60583, Sept. 12, 1980, as amended at 54 FR 25044, June 12, 1989]

Subpart B—Biological Stains

§ 864.1850 Dye and chemical solution stains.

(a) Identification. Dye and chemical solution stains for medical purposes are mixtures of synthetic or natural dyes or nondye chemicals in solutions used in staining cells and tissues for diagnostic histopathology, cytopathology, or hematology.

(b) Classification. Class I. These devices are exempt from the premarket notification procedures in Subpart E of Part 807. The devices are also exempt from the current good manufacturing practice regulations in Part 820 of this chapter, with the exception of § 820.180, with respect to general requirements concerning records, and § 820.190, with respect to complaint files.

[45 FR 60583, Sept. 12, 1980, as amended at 54 FR 25044, June 12, 1989]

Subpart C—Cell And Tissue Culture Products

§ 864.2220 Synthetic cell and tissue culture media and components.

(a) Identification. Synthetic cell and tissue culture media and components are substances that are composed entirely of defined components (e.g., amino acids, vitamins, inorganic salts, etc.) that are essential for the survival and development of cell lines of humans and other animals.

(b) Classification. Class I. These devices are exempt from the premarket notification procedures in Subpart E of Part 807 of this chapter.

[45 FR 60583, Sept. 12, 1980, as amended at 54 FR 25044, June 12, 1989]

§ 864.2240 Cell and tissue culture supplies and equipment.

(a) Identification. Cell and tissue culture supplies and equipment are devices that are used to examine, propagate, nourish, or grow cells and tissue cultures. These include such articles as slide culture chambers, perfusion and roller apparatus, cell culture suspension systems, and tissue culture flasks, disks, tubes, and roller bottles.

(b) Classification. Class I. These devices are exempt from the premarket notification procedures in Subpart E of
§ 864.2260  Chromosome culture kit.

(a) Identification. A chromosome culture kit is a device containing the necessary ingredients (e.g., Minimum Essential Media (MEM) of McCoy's 5A culture media, phytohemagglutinin, fetal calf serum, antibiotics, and heparin) used to culture tissues for diagnosis of congenital chromosome abnormalities.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in Subpart E of Part 807 of this chapter.

[45 FR 60584, Sept. 12, 1980, as amended at 54 FR 25044, June 12, 1989]

§ 864.2280  Cultured animal and human cells.

(a) Identification. Cultured animal and human cells are in vitro cultivated cell lines from the tissue of humans or other animals which are used in various diagnostic procedures, particularly diagnostic virology and cytogenetic studies.

(b) Classification. Class I (general controls).

[45 FR 60585, Sept. 12, 1980]

§ 864.2360  Mycoplasma detection media and components.

(a) Identification. Mycoplasma detection media and components are used to detect and isolate mycoplasma pleuropneumonia-like organisms (PPLO), a common microbial contaminant in cell cultures.

(b) Classification. Class I. These devices are exempt from the premarket notification procedures in Subpart E of Part 807 of this chapter.

[45 FR 60586, Sept. 12, 1980, as amended at 54 FR 25044, June 12, 1989]

Subpart D—Pathology Instrumentation and Accessories

§ 864.3010  Tissue processing equipment.

(a) Identification. Tissue processing equipment consists of devices used to prepare human tissue specimens for diagnostic histological examination by processing specimens through the various stages of decalcifying, infiltrating, sectioning, and mounting on microscope slides.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in Subpart E of Part 807 of this chapter. The device is also exempt from the current good manufacturing practice regulations in Part 820 of this chapter, with the exception of § 820.180, with respect to general requirements concerning records, and § 820.198, with respect to complaint files.

[45 FR 60587, Sept. 12, 1980, as amended at 54 FR 25044, June 12, 1989]
§ 864.3250 Specimen transport and storage container.

(a) Identification. A specimen transport and storage container, which may be empty or prefilled, is a device intended to contain biological specimens, body waste, or body exudate during storage and transport in order that the matter contained therein can be destroyed or used effectively for diagnostic examination. If prefilled, the device contains a fixative solution or other general purpose reagent to preserve the condition of a biological specimen added to the container.

(b) Classification. Class I (general controls). If the device is not intended for over-the-counter (OTC) distribution, it is exempt from the premarket notification procedures in subpart E of part 807 of this chapter. If the device is not labeled or otherwise represented as sterile, it is exempt from the current good manufacturing practice regulations in Part 820 of this chapter, with the exception of §820.180, with respect to the general requirements concerning records, and §820.198, with respect to complaint files.

[54 FR 47206, Nov. 13, 1989]

§ 864.3300 Cytocentrifuge.

(a) Identification. A cytocentrifuge is a centrifuge used to concentrate cells from biological cell suspensions (e.g., cerebrospinal fluid) and to deposit these cells on a glass microscope slide for cytological examination.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in Subpart E of Part 807 of this chapter.

[45 FR 60590, Sept. 12, 1980, as amended at 54 FR 25044, June 12, 1989]

§ 864.3400 Device for sealing microsections.

(a) Identification. A device for sealing microsections is an automated instrument used to seal stained cells and microsections for histological and cytological examination.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in Subpart E of Part 807 of this chapter.

[45 FR 60599, Sept. 12, 1980, as amended at 54 FR 25044, June 12, 1989]

§ 864.3600 Microscopes and accessories.

(a) Identification. Microscopes and accessories are optical instruments used to enlarge images of specimens, preparations, and cultures for medical purposes. Variations of microscopes and accessories (through a change in the light source) used for medical purposes include the following:

(1) Phase contrast microscopes, which permit visualization of unstained preparations by altering the phase relationship of light that passes around the object and through the object.

(2) Fluorescence microscopes, which permit examination of specimens stained with fluorochromes that fluoresce under ultraviolet light.

(3) Inverted stage microscopes, which permit examination of tissue cultures or other biological specimens contained in bottles or tubes with the light source mounted above the specimen.

(b) Classification. Class I. These devices are exempt from the premarket notification procedures in Subpart E of Part 807 of this chapter. The devices are also exempt from the current good manufacturing practice regulations in Part 820 of this chapter, with the exception of §820.180, with respect to the general requirements concerning records, and §820.198, with respect to complaint files.

[45 FR 60590, Sept. 12, 1980, as amended at 54 FR 25044, June 12, 1989]

§ 864.3800 Automated slide stainer.

(a) Identification. An automated slide stainer is a device used to stain histology, cytology, and hematology slides for diagnosis.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in Subpart E of Part 807 of this chapter.

[45 FR 60591, Sept. 12, 1980, as amended at 54 FR 25044, June 12, 1989]

§ 864.3875 Automated tissue processor.

(a) Identification. An automated tissue processor is an automated system used to process tissue specimens for examination through fixation, dehydration, and infiltration.
§ 864.4010  General purpose reagent.

(a) Identification. A general purpose reagent is a chemical reagent that has general laboratory application, that is used to collect, prepare, and examine specimens from the human body for diagnostic histopathology, cytology, and hematology, and that is not labeled or otherwise intended for a specific diagnostic application. General purpose reagents include cytological preservatives, decalcifying reagents, fixatives and adhesives, tissue processing reagents, isotonic solutions, and pH buffers.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in Subpart E of Part 807 of this chapter.

[45 FR 60591, Sept. 12, 1980, as amended at 54 FR 25045, June 12, 1989]

§ 864.4400  Enzyme preparations.

(a) Identification. Enzyme preparations are products that are used in the histopathology laboratory for the following purposes:

(1) To disaggregate tissues and cells already in established cultures for preparation into subsequent cultures (e.g., trypsin);

(2) To disaggregate fluid specimens for cytological examination (e.g., papain for gastric lavage or trypsin for sputum liquefaction);

(3) To aid in the selective staining of tissue specimens (e.g., diastase for glycogen determination).

(b) Classification. Class I. These devices are exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

[45 FR 60592, Sept. 12, 1980, as amended at 54 FR 25045, June 12, 1989]

Subpart F—Automated and Semi-Automated Hematology Devices

§ 864.5200  Automated cell counter.

(a) Identification. An automated cell counter is a fully-automated or semi-automated device used to count red blood cells, white blood cells, or blood platelets using a sample of the patient’s peripheral blood (blood circulating in one of the body’s extremities, such as the arm). These devices may also measure hemoglobin or hematocrit and may also calculate or measure one or more of the red cell indices (the erythrocyte mean corpuscular volume, the mean corpuscular hemoglobin, or the mean corpuscular hemoglobin concentration). These devices may use either an electronic particle counting method or an optical counting method.

(b) Classification. Class II (performance standards).

[45 FR 60593, Sept. 12, 1980]

§ 864.5220  Automated differential cell counter.

(a) Identification. An automated differential cell counter is a device used to identify and classify one or more of the formed elements of the blood.

(b) Classification. (1) Class II (performance standards) when the device is intended to flag or identify specimens containing abnormal blood cells.

(2) Class III (premarket approval) when the device is intended for other uses, including to count or classify abnormal cells of the blood.

(c) Date PMA or notice of completion of a PDP is required. No effective date has been established of the requirement for premarket approval for the device identified in paragraph (b)(2) of this section. See §864.3.

[45 FR 60596, Sept. 12, 1980, as amended at 55 FR 23311, June 8, 1990]

§ 864.5240  Automated blood cell diluting apparatus.

(a) Identification. An automated blood cell diluting apparatus is a fully automated or semi-automated device used
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§ 864.5260 Automated cell-locating device.

(a) Identification. An automated cell-locating device is a device used to locate blood cells on a peripheral blood smear, allowing the operator to identify and classify each cell according to type. (Peripheral blood is blood circulating in one of the body's extremities, such as the arm.)

(b) Classification. Class I (general controls).

[45 FR 60596, Sept. 12, 1980]

§ 864.5300 Red cell indices device.

(a) Identification. A red cell indices device, usually part of a larger system, calculates or directly measures the erythrocyte mean corpuscular volume (MCV), the mean corpuscular hemoglobin (MCH), and the mean corpuscular hemoglobin concentration (MCHC). The red cell indices are used for the differential diagnosis of anemias.

(b) Classification. Class II (performance standards).

[45 FR 60597, Sept. 12, 1980]

§ 864.5350 Microsedimentation centrifuge.

(a) Identification. A microsedimentation centrifuge is a device used to sediment red cells for the microsedimentation rate test.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 864.5400 Coagulation instrument.

(a) Identification. A coagulation instrument is an automated or semiautomated device used to determine the onset of clot formation for in vitro coagulation studies.

(b) Classification. Class II (performance standards).

[45 FR 60598, Sept. 12, 1980]

§ 864.5425 Multipurpose system for in vitro coagulation studies.

(a) Identification. A multipurpose system for in vitro coagulation studies is a device consisting of one automated or semiautomated instrument and its associated reagents and controls. The system is used to perform a series of coagulation studies and coagulation factor assays.

(b) Classification. Class II (performance standards).

[45 FR 60599, Sept. 12, 1980]

§ 864.5600 Automated hematocrit instrument.

(a) Identification. An automated hematocrit instrument is a fully automated or semi-automated device which may or may not be part of a larger system. This device measures the packed red cell volume of a blood sample to distinguish normal from abnormal states, such as anemia and erythrocytosis (an increase in the number of red cells).

(b) Classification. Class II (performance standards).

[45 FR 60600, Sept. 12, 1980]

§ 864.5620 Automated hemoglobin system.

(a) Identification. An automated hemoglobin system is a fully automated or semi-automated device which may or may not be part of a larger system. The generic type of device consists of the reagents, calibrators, controls, and instrumentation used to determine the hemoglobin content of human blood.

(b) Classification. Class II (performance standards).

[45 FR 60601, Sept. 12, 1980]

§ 864.5680 Automated heparin analyzer.

(a) Identification. An automated heparin analyzer is a device used to determine the heparin level in a blood sample by mixing the sample with protamine (a heparin-neutralizing substance) and determining photometrically the onset of air-activated clotting. The analyzer also determines the amount of protamine necessary to neutralize the heparin in the patient’s circulation.
§ 864.5700

(b) Classification. Class II (special controls).

§ 864.5700 Automated platelet aggregation system.

(a) Identification. An automated platelet aggregation system is a device used to determine changes in platelet shape and platelet aggregation following the addition of an aggregating reagent to a platelet-rich plasma.
(b) Classification. Class II (performance standards).
[45 FR 60601, Sept. 12, 1980]

§ 864.5800 Automated sedimentation rate device.

(a) Identification. An automated sedimentation rate device is an instrument that measures automatically the erythrocyte sedimentation rate in whole blood. Because an increased sedimentation rate indicates tissue damage or inflammation, the erythrocyte sedimentation rate device is useful in monitoring treatment of a disease.
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.
[45 FR 60602, Sept. 12, 1980, as amended at 54 FR 25045, June 12, 1989]

§ 864.5850 Automated slide spinner.

(a) Identification. An automated slide spinner is a device that prepares automatically a blood film on a microscope slide using a small amount of peripheral blood (blood circulating in one of the body’s extremities, such as the arm).
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.
[45 FR 60602, Sept. 12, 1980, as amended at 54 FR 25045, June 12, 1989]

§ 864.5950 Blood volume measuring device.

(a) Identification. A blood volume measuring device is a manual, semi-automated, or automated system that is used to calculate the red cell mass, plasma volume, and total blood volume.
(b) Classification. Class II (performance standards).
[45 FR 60603, Sept. 12, 1980]

Subpart G—Manual Hematology Devices

§ 864.6100 Bleeding time device.

(a) Identification. A bleeding time device is a device, usually employing two spring-loaded blades, that produces two small incisions in the patient’s skin. The length of time required for the bleeding to stop is a measure of the effectiveness of the coagulation system, primarily the platelets.
(b) Classification. Class II (performance standards).
[45 FR 60604, Sept. 12, 1980]

§ 864.6150 Capillary blood collection tube.

(a) Identification. A capillary blood collection tube is a plain or heparinized glass tube of very small diameter used to collect blood by capillary action.
(b) Classification. Class I. If the device is not intended for over-the-counter (OTC) distribution, it is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.
[45 FR 60604, Sept. 12, 1980, as amended at 54 FR 25045, June 12, 1989]

§ 864.6160 Manual blood cell counting device.

(a) Identification. A manual blood cell counting device is a device used to count red blood cells, white blood cells, or blood platelets.
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.
[45 FR 60605, Sept. 12, 1980, as amended at 54 FR 25045, June 12, 1989]

§ 864.6400 Hematocrit measuring device.

(a) Identification. A hematocrit measuring device is a system consisting of instruments, tubes, racks, and a sealer and a holder. The device is used to measure the packed red cell volume in
blood to determine whether the patient’s total red cell volume is normal or abnormal. Abnormal states include anemia (an abnormally low total red cell volume) and erythrocytosis (an abnormally high total red cell mass). The packed red cell volume is produced by centrifuging a given volume of blood.

(b) Classification. Class II (performance standards).

§ 864.6550 Occult blood test.
(a) Identification. An occult blood test is a device used to detect occult blood in urine or feces. (Occult blood is blood present in such small quantities that it can be detected only by chemical tests of suspected material, or by microscopic or spectroscopic examination.)
(b) Classification. Class II (performance standards).

§ 864.6600 Osmotic fragility test.
(a) Identification. An osmotic fragility test is a device used to determine the resistance of red blood cells to hemolysis (destruction) in varying concentrations of hypotonic saline solutions.
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

§ 864.6650 Platelet adhesion test.
(a) Identification. A platelet adhesion test is a device used to determine in vitro platelet function.
(b) Classification. Class II (performance standards).

§ 864.6675 Platelet aggregometer.
(a) Identification. A platelet aggregometer is a device, used to determine changes in platelet shape and platelet aggregation following the addition of an aggregating reagent to a platelet rich plasma.
(b) Classification. Class II (performance standards).

§ 864.6700 Erythrocyte sedimentation rate test.
(a) Identification. An erythrocyte sedimentation rate test is a device that measures the length of time required for the red cells in a blood sample to fall a specified distance or a device that measures the degree of sedimentation taking place in a given length of time. An increased rate indicates tissue damage or inflammation.
(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

§ 864.6706 Antithrombin III assay.
(a) Identification. An antithrombin III assay is a device that is used to determine the plasma level of antithrombin III (a substance which acts with the anticoagulant heparin to prevent coagulation). This determination is used to monitor the administration of heparin in the treatment of thrombosis. The determination may also be used in the diagnosis of thrombophilia (a congenital deficiency of antithrombin III).
(b) Classification. Class II (performance standards).

§ 864.7040 Adenosine triphosphate release assay.
(a) Identification. An adenosine triphosphate release assay is a device that measures the release of adenosine triphosphate (ATP) from platelets following aggregation. This measurement is made on platelet-rich plasma using a photometer and a luminescent firefly extract. Simultaneous measurements of platelet aggregation and ATP release are used to evaluate platelet function disorders.
(b) Classification. Class I (general controls).

§ 864.7060 Anti-thrombin III assay.
(a) Identification. An anti-thrombin III assay is a device that is used to determine the plasma level of anti-thrombin III (a substance which acts with the anticoagulant heparin to prevent coagulation). This determination is used to monitor the administration of heparin in the treatment of thrombosis. The determination may also be used in the diagnosis of thrombophilia (a congenital deficiency of anti-thrombin III).
(b) Classification. Class II (performance standards).
§ 864.7100 Red blood cell enzyme assay.

(a) Identification. Red blood cell enzyme assay is a device used to measure the activity in red blood cells of clinically important enzymatic reactions and their products, such as pyruvate kinase or 2,3-diphosphoglycerate. A red blood cell enzyme assay is used to determine the enzyme defects responsible for a patient’s hereditary hemolytic anemia.

(b) Classification. Class II (performance standards).

[45 FR 60612, Sept. 12, 1980]

§ 864.7140 Activated whole blood clotting time tests.

(a) Identification. An activated whole blood clotting time tests is a device, used to monitor heparin therapy for the treatment of venous thrombosis or pulmonary embolism by measuring the coagulation time of whole blood.

(b) Classification. Class II (performance standards).

[45 FR 60611, Sept. 12, 1980]

§ 864.7250 Erythropoietin assay.

(a) Identification. An erythropoietin assay is a device that measures the concentration of erythropoietin (an enzyme that regulates the production of red blood cells) in serum or urine. This assay provides diagnostic information for the evaluation of erythrocytosis (increased total red cell mass) and anemia.

(b) Classification. Class II (performance standards).

[45 FR 60611, Sept. 12, 1980]

§ 864.7275 Euglobulin lysis time tests.

(a) Identification. A euglobulin lysis time test is a device that measures the length of time required for the lysis (dissolution) of a clot formed from fibrinogen in the euglobulin fraction (that fraction of the plasma responsible for the formation of plasmin, a clot lysing enzyme). This test evaluates natural fibrinolysis (destruction of a blood clot after bleeding has been arrested). The test also will detect accelerated fibrinolysis.

(b) Classification. Class II (performance standards).

[45 FR 60613, Sept. 12, 1980]

§ 864.7290 Factor deficiency test.

(a) Identification. A factor deficiency test is a device used to diagnose specific coagulation defects, to monitor certain types of therapy, to detect coagulation inhibitors, and to detect a carrier state (a person carrying both a recessive gene for a coagulation factor deficiency such as hemophilia and the corresponding normal gene).

(b) Classification. Class II (performance standards).

[45 FR 60613, Sept. 12, 1980]

§ 864.7300 Fibrin monomer paracoagulation test.

(a) Identification. A fibrin monomer paracoagulation test is a device used to detect fibrin monomer in the diagnosis of disseminated intravascular coagulation (nonlocalized clotting within a blood vessel) or in the differential diagnosis between disseminated intravascular coagulation and primary fibrinolysis (dissolution of the fibrin in a blood clot).

(b) Classification. Class III (premarket approval).

(c) Date PMA or notice of completion of a PDP is required. No effective date has been established of the requirement for premarket approval. See §864.3.


§ 864.7320 Fibrinogen/fibrin degradation products assay.

(a) Identification. A fibrinogen/fibrin degradation products assay is a device used to detect and measure fibrinogen degradation products and fibrin degradation products (protein fragments produced by the enzymatic action of plasmin on fibrinogen and fibrin) as an aid in detecting the presence and degree of intravascular coagulation and fibrinolysis (the dissolution of the fibrin in a blood clot) and in monitoring therapy for disseminated intravascular coagulation (nonlocalized clotting in the blood vessels).
§ 864.7340 Fibrinogen determination system.
(a) Identification. A fibrinogen determination system is a device that consists of the instruments, reagents, standards, and controls used to determine the fibrinogen levels in disseminated intravascular coagulation (nonlocalized clotting within the blood vessels) and primary fibrinolysis (the dissolution of fibrin in a blood clot).
(b) Classification. Class II (performance standards).
[45 FR 60615, Sept. 12, 1980]

§ 864.7360 Erythrocytic glucose-6-phosphate dehydrogenase assay.
(a) Identification. An erythrocytic glucose-6-phosphate dehydrogenase assay is a device used to measure the activity of the enzyme glucose-6-phosphate dehydrogenase or of glucose-6-phosphate dehydrogenase isoenzymes. The results of this assay are used in the diagnosis and treatment of nonspherocytic congenital hemolytic anemia or drug-induced hemolytic anemia associated with a glucose-6-phosphate dehydrogenase deficiency. This generic device includes assays based on fluorescence, electrophoresis, methemoglobin reduction, catalase inhibition, and ultraviolet kinetics.
(b) Classification. Class II (performance standards).
[45 FR 60635, Sept. 12, 1980]

§ 864.7375 Glutathione reductase assay.
(a) Identification. A glutathione reductase assay is a device used to determine the activity of the enzyme glutathione reductase in serum, plasma, or erythrocytes by such techniques as fluorescence and photometry. The results of this assay are used in the diagnosis of liver disease, glutathione reductase deficiency, or riboflavin deficiency.
(b) Classification. Class II (performance standards).
[45 FR 60636, Sept. 12, 1980]

§ 864.7400 Hemoglobin A2 assay.
(a) Identification. A hemoglobin A2 assay is a device used to determine the hemoglobin A2 content of human blood. The measurement of hemoglobin A2 is used in the diagnosis of the thalassemias (hereditary hemolytic anemias characterized by decreased synthesis of one or more types of hemoglobin polypeptide chains).
(b) Classification. Class II (performance standards).
[45 FR 60617, Sept. 12, 1980]

§ 864.7415 Abnormal hemoglobin assay.
(a) Identification. An abnormal hemoglobin assay is a device consisting of the reagents, apparatus, instrumentation, and controls necessary to isolate and identify abnormal genetically determined hemoglobin types.
(b) Classification. Class II (performance standards).
[45 FR 60638, Sept. 12, 1980]

§ 864.7425 Carboxyhemoglobin assay.
(a) Identification. A carboxyhemoglobin assay is a device used to determine the carboxyhemoglobin (the compound formed when hemoglobin is exposed to carbon monoxide) content of human blood as an aid in the diagnosis of carbon monoxide poisoning. This measurement may be made using methods such as spectroscopy, colorimetry, spectrophotometry, and gasometry.
(b) Classification. Class II (performance standards).
[45 FR 60639, Sept. 12, 1980]

§ 864.7440 Electrophoretic hemoglobin analysis system.
(a) Identification. An electrophoretic hemoglobin analysis system is a device that electrophoretically separates and identifies normal and abnormal hemoglobin types as an aid in the diagnosis of anemia or erythrocytosis (increased total red cell mass) due to a hemoglobin abnormality.
(b) Classification. Class II (performance standards).
[45 FR 60620, Sept. 12, 1980]
§ 864.7455 Fetal hemoglobin assay.

(a) Identification. A fetal hemoglobin assay is a device that is used to determine the presence and distribution of fetal hemoglobin (hemoglobin F) in red cells or to measure the amount of fetal hemoglobin present. The assay may be used to detect fetal red cells in the maternal circulation or to detect the elevated levels of fetal hemoglobin exhibited in cases of hemoglobin abnormalities such as thalassemia (a hereditary hemolytic anemia characterized by a decreased synthesis of one or more types of hemoglobin polypeptide chains). The hemoglobin determination may be made by methods such as electrophoresis, alkali denaturation, column chromatography, or radial immunodiffusion.

(b) Classification. Class II (performance standards).

§ 864.7470 Glycosylated hemoglobin assay.

(a) Identification. A glycosylated hemoglobin assay is a device used to measure the glycosylated hemoglobins (A1a, A1b, and A1c) in a patient’s blood by a column chromatographic procedure. Measurement of glycosylated hemoglobin is used to assess the level of control of a patient’s diabetes and to determine the proper insulin dosage for a patient. Elevated levels of glycosylated hemoglobin indicate uncontrolled diabetes in a patient.

(b) Classification. Class II (performance standards).

§ 864.7490 Sulfhemoglobin assay.

(a) Identification. A sulfhemoglobin assay is a device consisting of the reagents, calibrators, controls, and instrumentation used to determine the sulfhemoglobin (a compound of sulfur and hemoglobin) content of human blood as an aid in the diagnosis of sulfhemoglobinemia (presence of sulfhemoglobin in the blood due to drug administration or exposure to a poison). This measurement may be made using methods such as spectroscopy, colorimetry, spectrophotometry, or gasometry.

(b) Classification. Class II (performance standards).

§ 864.7500 Whole blood hemoglobin assays.

(a) Identification. A whole blood hemoglobin assay is a device consisting of reagents, calibrators, controls, or photometric or spectrophotometric instrumentation used to measure the hemoglobin content of whole blood for the detection of anemia. This generic device category does not include automated hemoglobin systems.

(b) Classification. Class II (performance standards).

§ 864.7525 Heparin assay.

(a) Identification. A heparin assay is a device used to determine the level of the anticoagulant heparin in the patient’s circulation. These assays are quantitative clotting time procedures using the effect of heparin on activated coagulation factor X (Stuart factor) or procedures based on the neutralization of heparin by protamine sulfate (a protein that neutralizes heparin).

(b) Classification. Class II (performance standards).

§ 864.7660 Leukocyte alkaline phosphatase test.

(a) Identification. A leukocyte alkaline phosphatase test is a device used to identify the enzyme leukocyte alkaline phosphatase in neutrophilic granulocytes (granular leukocytes stainable by neutral dyes). The cytochemical identification of alkaline phosphatase depends on the formation of blue granules in cells containing alkaline phosphatase. The results of this test are used to differentiate chronic granulocytic leukemia (a malignant disease characterized by excessive overgrowth of granulocytes in the bone marrow) and reactions that resemble true leukemia, such as those occurring in severe infections and polycythemia (increased total red cell mass).

(b) Classification. Class I. The device is exempt from the premarket notifica-
§ 864.7675 Leukocyte peroxidase test.

(a) Identification. A leukocyte peroxidase test is a device used to distinguish certain myeloid cells derived from the bone marrow, i.e., neutrophils, eosinophils, and monocytes, from lymphoid cells of the lymphatic system and erythroid cells of the red blood cell series on the basis of their peroxidase activity as evidenced by staining. The results of this test are used in the differential diagnosis of the leukemias.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 864.7695 Platelet factor 4 radioimmunoassay.

(a) Identification. A platelet factor 4 radioimmunoassay is a device used to measure the level of platelet factor 4, a protein released during platelet activation by radioimmunoassay. This device measures platelet activation, which may indicate a coagulation disorder, such as myocardial infarction or coronary artery disease.

(b) Classification. Class II (performance standards).


§ 864.7720 Prothrombin consumption test.

(a) Identification. A prothrombin consumption test is a device that measures the patient’s capacity to generate thromboplastin in the coagulation process. The test also is an indirect indicator of qualitative or quantitative platelet abnormalities. It is a screening test for thrombocytopenia (decreased number of blood platelets) and hemophilia A and B.

(b) Classification. Class II (performance standards).

[45 FR 60625, Sept. 12, 1980]

§ 864.7735 Prothrombin-proconvertin test and thrombotest.

(a) Identification. The prothrombin-proconvertin test and thrombotest are devices used in the regulation of coumarin therapy (administration of a coumarin anticoagulant such as sodium warfarin in the treatment of venous thrombosis and pulmonary embolism) and as a diagnostic test in conjunction with, or in place of, the Quick prothrombin time test to detect coagulation disorders.

(b) Classification. Class II (performance standards).

[45 FR 60626, Sept. 12, 1980]

§ 864.7750 Prothrombin time test.

(a) Identification. A prothrombin time test is a device used as a general screening procedure for the detection of possible clotting factor deficiencies in the extrinsic coagulation pathway, which involves the reaction between coagulation factors III and VII, and to monitor patients receiving coumarin therapy (the administration of one of the coumarin anticoagulants in the treatment of venous thrombosis or pulmonary embolism).

(b) Classification. Class II (performance standards).

[45 FR 60627, Sept. 12, 1980]

§ 864.7825 Sickle cell test.

(a) Identification. A sickle cell test is a device used to determine the sickle cell hemoglobin content of human blood to detect sickle cell trait or sickle cell diseases.

(b) Classification. Class II (performance standards).

[45 FR 60627, Sept. 12, 1980]

§ 864.7875 Thrombin time test.

(a) Identification. A thrombin time test is a device used to measure fibrinogen concentration and detect fibrin or fibrinogen split products for the evaluation of bleeding disorders.

(b) Classification. Class II (performance standards).

[45 FR 60628, Sept. 12, 1980]
§ 864.7900 Thromboplastin generation test.

(a) Identification. A thromboplastin generation test is a device used to detect and identify coagulation factor deficiencies and coagulation inhibitors.

(b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.


§ 864.7925 Partial thromboplastin time tests.

(a) Identification. A partial thromboplastin time test is a device used for primary screening for coagulation abnormalities, for evaluation of the effect of therapy on procoagulant disorders, and as an assay for coagulation factor deficiencies of the intrinsic coagulation pathway.

(b) Classification. Class II (performance standards).

[45 FR 60629, Sept. 12, 1980]

Subpart I—Hematology Reagents

§ 864.8100 Bothrops atrox reagent.

(a) Identification. A Bothrops atrox reagent is a device made from snake venom and used to determine blood fibrinogen levels to aid in the evaluation of disseminated intravascular coagulation (nonlocalized clotting in the blood vessels) in patients receiving heparin therapy (the administration of the anticoagulant heparin in the treatment of thrombosis) or as an aid in the classification of dysfibrinogenemia (presence in the plasma of functionally defective fibrinogen).

(b) Classification. Class II (performance standards).

[45 FR 60629, Sept. 12, 1980]

§ 864.8150 Calibrator for cell indices.

(a) Identification. A calibrator for cell indices is a device that approximates whole blood or certain blood cells and that is used to set an instrument intended to measure mean cell volume (MCV), mean corpuscular hemoglobin (MCH), and mean corpuscular hemoglobin concentration (MCHC), or other cell indices. It is a suspension of particles or cells whose size, shape, concentration, and other characteristics have been precisely and accurately determined.

(b) Classification. Class II (performance standards).

[45 FR 60633, Sept. 12, 1980]

§ 864.8175 Calibrator for platelet counting.

(a) Identification. A calibrator for platelet counting is a device that resembles platelets in plasma or whole blood and that is used to set a platelet counting instrument. It is a suspension of particles or cells whose size, shape, concentration, and other characteristics have been precisely and accurately determined.

(b) Classification. Class II (performance standards).

[45 FR 60634, Sept. 12, 1980]
§ 864.8200 Blood cell diluent.
  (a) Identification. A blood cell diluent is a device used to dilute blood for further testing, such as blood cell counting.
  (b) Classification. Class I. The device is exempt from the premarket notification procedures in Subpart E of Part 807 of this chapter.

§ 864.8500 Lymphocyte separation medium.
  (a) Identification. A lymphocyte separation medium is a device used to isolate lymphocytes from whole blood.
  (b) Classification. Class I. The device is exempt from the premarket notification procedures in subpart E of part 807 of this chapter.

§ 864.8540 Red cell lysing reagent.
  (a) Identification. A red cell lysing reagent is a device used to lyse (destroy) red blood cells for hemoglobin determinations or aid in the counting of white blood cells.
  (b) Classification. Class I. The device is exempt from the premarket notification procedures in Subpart E of Part 807 of this chapter.

§ 864.8625 Hematology quality control mixture.
  (a) Identification. A hematology quality control mixture is a device used to ascertain the accuracy and precision of manual, semiautomated, and automated determinations of cell parameters such as white cell count (WBC), red cell count (RBC), platelet count (PLT), hemoglobin, hematocrit (HCT), mean corpuscular volume (MCV), mean corpuscular hemoglobin (MCH), and mean corpuscular hemoglobin concentration (MCHC).
  (b) Classification. Class II (performance standards).

§ 864.8950 Russell viper venom reagent.
  (a) Identification. Russell viper venom reagent is a device used to determine the cause of an increase in the prothrombin time.
  (b) Classification. Class I (general controls).

Subpart J—Products Used In Establishments That Manufacture Blood and Blood Products

§ 864.9050 Blood bank supplies.
  (a) Identification. Blood bank supplies are general purpose devices intended for in vitro use in blood banking. This generic type of device includes products such as blood bank pipettes, blood grouping slides, blood typing tubes, blood typing racks, and cold packs for antisera reagents. The device does not include articles that are licensed by the Center for Biologics Evaluation and Research of the Food and Drug Administration.
  (b) Classification. Class I (general controls).

§ 864.9100 Empty container for the collection and processing of blood and blood components.
  (a) Identification. An empty container for the collection and processing of blood and blood components is a device intended for medical purposes that is an empty plastic bag or plastic or glass bottle used to collect, store, or transfer blood and blood components for further processing.
  (b) Classification. Class II (performance standards).

§ 864.9125 Vacuum-assisted blood collection system.
  (a) Identification. A vacuum-assisted blood collection system is a device intended for medical purposes that uses a vacuum to draw blood for subsequent reinfusion.
  (b) Classification. Class I (general controls).
§ 864.9145  Processing system for frozen blood.

(a) Identification. A processing system for frozen blood is a device used to glycerolize red blood cells prior to freezing to minimize hemolysis (disruption of the red cell membrane accompanied by the release of hemoglobin) due to freezing and thawing of red blood cells and to deglycerolize and wash thawed cells for subsequent reinfusion.

(b) Classification. Class II (performance standards).

[45 FR 60639, Sept. 12, 1980]

§ 864.9160  Blood group substances of nonhuman origin for in vitro diagnostic use.

(a) Identification. Blood group substances of nonhuman origin for in vitro diagnostic use are materials, such as blood group specific substances prepared from nonhuman sources (e.g., pigs, cows, and horses) used to detect, identify, or neutralize antibodies to various human blood group antigens. This generic type of device does not include materials that are licensed by the Center for Biologics Evaluation and Research of the Food and Drug Administration.

(b) Classification. Class II (performance standards).

[45 FR 60640, Sept. 12, 1980, as amended at 53 FR 11253, Apr. 6, 1988]

§ 864.9175  Automated blood grouping and antibody test system.

(a) Identification. An automated blood grouping and antibody test system is a device used to group erythrocytes (red blood cells) and to detect antibodies to blood group antigens.

(b) Classification. Class II (performance standards).

[45 FR 60641, Sept. 12, 1980]

§ 864.9185  Blood grouping view box.

(a) Identification. A blood grouping view box is a device with a glass or plastic viewing surface, which may be illuminated and heated, that is used to view cell reactions in antigen-antibody testing.

(b) Classification. Class I (general controls).

[45 FR 60643, Sept. 12, 1980]

§ 864.9195  Blood mixing devices and blood weighing devices.

(a) Identification. A blood mixing device is a device intended for medical purposes that is used to mix blood or blood components by agitation. A blood weighing device is a device intended for medical purposes that is used to weigh blood or blood components as they are collected.

(b) Classification. Class I (general controls).

[45 FR 60642, Sept. 12, 1980]

§ 864.9205  Blood and plasma warming device.

(a) Nonelectromagnetic blood or plasma warming device—

(1) Identification. A nonelectromagnetic blood and plasma warming device is a device that warms blood or plasma, by means other than electromagnetic radiation, prior to administration.

(b) Classification. Class II (performance standards).

(1) Identification. An electromagnetic blood and plasma warming device is a device that employs electromagnetic radiation (radiowaves or microwaves) to warm a bag or bottle of blood or plasma prior to administration.

(2) Classification. Class III (premarket approval).

(c) Date PMA or notice of completion of a PDP is required. No effective date has been established of the requirement for premarket approval for the device described in paragraph (b)(1). See §864.3.


§ 864.9225  Cell-freezing apparatus and reagents for in vitro diagnostic use.

(a) Identification. Cell-freezing apparatus and reagents for in vitro diagnostic use are devices used to freeze human red blood cells for in vitro diagnostic use.

(b) Classification. Class I (general controls).

[45 FR 60643, Sept. 12, 1980]
§ 864.9245 Automated blood cell separator.
(a) Identification. An automated blood cell separator is a device that automatically removes whole blood from a donor, separates the blood into components (red blood cells, white blood cells, plasma, and platelets), retains one or more of the components, and returns the remainder of the blood to the donor. The components obtained are transfused or used to prepare blood products for administration. These devices operate on either a centrifugal separation principle or a filtration principle. The separation bowls of centrifugal blood cell separators may be reusable or disposable.
(b) Classification. Class III (premarket approval).
(c) Date PMA or notice of completion of a PDP is required. No effective date has been established of the requirement for premarket approval. See § 864.3.

§ 864.9275 Blood bank centrifuge for in vitro diagnostic use.
(a) Identification. A blood bank centrifuge for in vitro diagnostic use is a device used only to separate blood cells for further diagnostic testing.
(b) Classification. Class I (general controls).
[45 FR 60645, Sept. 12, 1980]

§ 864.9285 Automated cell-washing centrifuge for immuno-hematology.
(a) Identification. An automated cell-washing centrifuge for immuno-hematology is a device used to separate and prepare cells and sera for further in vitro diagnostic testing.
(b) Classification. Class II (performance standards).
[45 FR 60646, Sept. 12, 1980]

§ 864.9300 Automated Coombs test systems.
(a) Identification. An automated Coombs test system is a device used to detect and identify antibodies in patient sera or antibodies bound to red cells. The Coombs test is used for the diagnosis of hemolytic disease of the newborn, and autoimmune hemolytic anemia. The test is also used in crossmatching and in investigating transfusion reactions and drug-induced red cell sensitization.
(b) Classification. Class II (performance standards).

§ 864.9320 Copper sulfate solution for specific gravity determinations.
(a) Identification. A copper sulfate solution for specific gravity determinations is a device used to determine whether the hemoglobin content of a potential donor's blood meets the required level (12.5 grams per 100 milliliters of blood for women and 13.5 grams per 100 milliliters of blood for men).
(b) Classification. Class I (general controls).
[45 FR 60647, Sept. 12, 1980]

§ 864.9400 Stabilized enzyme solution.
(a) Identification. A stabilized enzyme solution is a reagent intended for medical purposes that is used to enhance the reactivity of red blood cells with certain antibodies, including antibodies that are not detectable by other techniques. These enzyme solutions include papain, bromelin, ficin, and trypsin.
(b) Classification. Class II (performance standards).
[45 FR 60647, Sept. 12, 1980]

§ 864.9550 Lectins and protectins.
(a) Identification. Lectins and protectins are proteins derived from plants and lower animals that cause cell agglutination in the presence of certain antigens. These substances are used to detect blood group antigens for in vitro diagnostic purposes.
(b) Classification. Class II (performance standards).
[45 FR 60648, Sept. 12, 1980]

§ 864.9575 Environmental chamber for storage of platelet concentrate.
(a) Identification. An environmental chamber for storage of platelet concentrate is a device used to hold platelet-rich plasma within a preselected temperature range.
§ 864.9600
(b) Classification. Class II (performance standards).
[45 FR 60648, Sept. 12, 1980]

§ 864.9600 Potentiating media for in vitro diagnostic use.
(a) Identification. Potentiating media for in vitro diagnostic use are media, such as bovine albumin, that are used to suspend red cells and to enhance cell reactions for antigen-antibody testing.
(b) Classification. Class II (performance standards).
[45 FR 60649, Sept. 12, 1980]

§ 864.9650 Quality control kit for blood banking reagents.
(a) Identification. A quality control kit for blood banking reagents is a device that consists of sera, cells, buffers, and antibodies used to determine the specificity, potency, and reactivity of the cells and reagents used for blood banking.
(b) Classification. Class II (performance standards).
[45 FR 60649, Sept. 12, 1980]

§ 864.9700 Blood storage refrigerator and blood storage freezer.
(a) Identification. A blood storage refrigerator and a blood storage freezer are devices intended for medical purposes that are used to preserve blood and blood products by storing them at cold or freezing temperatures.
(b) Classification. Class II (performance standards).
[45 FR 60650, Sept. 12, 1980]

§ 864.9750 Heat-sealing device.
(a) Identification. A heat-sealing device is a device intended for medical purposes that uses heat to seal plastic bags containing blood or blood components.
(b) Classification. Class I (general controls).
[45 FR 60650, Sept. 12, 1980]

§ 864.9875 Transfer set.
(a) Identification. A transfer set is a device intended for medical purposes that consists of a piece of tubing with suitable adaptors used to transfer blood or plasma from one container to another.
(b) Classification. Class II (performance standards).
[45 FR 60651, Sept. 12, 1980]