




**Commonwealth of Massachusetts**  
**Executive Office of Health and Human Services**  
**Division of Medical Assistance**  
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Boston, MA 02111  
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MASSHEALTH  
TRANSMITTAL LETTER LAB-22  
July 2002

**TO:** Independent Clinical Laboratories Participating in MassHealth  
**FROM:** Wendy E. Warring, Commission   
**RE:** *Independent Clinical Laboratory Manual* (Laboratory HCPCS)

The federal government has revised the HCFA Common Procedure Coding System (HCPCS) for MassHealth billing.

This letter transmits changes for your provider manual that contain the new and revised codes. The revised Subchapter 6 is effective for dates of service on or after April 30, 2002. The codes introduced under the 2002 HCPCS code book are effective for dates of service on or after April 30, 2002. We will accept either the new or the old codes for dates of service through July 28, 2002. For dates of service on or after July 29, 2002, you must use the new codes to receive payment.

If you wish to obtain a fee schedule, you may purchase Division of Health Care Finance and Policy regulations from either the Massachusetts State Bookstore or from the Division of Health Care Finance and Policy (see addresses and telephone numbers below). You must contact them first to find out the price of the publication. The Division of Health Care Finance and Policy also has the regulations available on disk. The regulation title for laboratory is 114.3 CMR 20.00: Laboratory.

Massachusetts State Bookstore  
State House, Room 116  
Boston, MA 02133  
Telephone: 617-727-2834  
[www.mass.gov/sec/spr](http://www.mass.gov/sec/spr)

Division of Health Care Finance and Policy  
Two Boylston Street  
Boston, MA 02116  
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[www.mass.gov/dhcfp](http://www.mass.gov/dhcfp)

NEW MATERIAL

(The pages listed here contain new or revised language.)

Independent Clinical Laboratory Manual

Pages vi and 6-1 through 6-36

OBSOLETE MATERIAL

(The pages listed here are no longer in effect.)

Independent Clinical Laboratory Manual

Pages vi, 6-1 through 6-28, and 6-31 through 6-36 — transmitted by Transmittal Letter LAB-20

Pages 6-29 and 6-30 — transmitted by Transmittal Letter LAB-21

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**PATHOLOGY AND LABORATORY**

**ORGAN OR DISEASE-ORIENTED PANELS**

These panels were developed for coding purposes only and should not be interpreted as clinical parameters. The tests listed with each panel identify the defined components of that panel. These panel components are not intended to limit the performance of other tests. If one performs tests in addition to those specifically indicated for a particular panel, those tests should be reported separately in addition to the panel code.

- 80048      Basic metabolic panel (This panel must include the following: Calcium (82310), Carbon dioxide (82374), Chloride (82435), Creatinine (82565), Glucose (82947), Potassium (84132), Sodium (84295), and Urea Nitrogen (BUN) (84520).)
- 80050      General health panel (This panel must include the following: Comprehensive metabolic panel (80054), Hemogram, automated, and manual differential WBC count (CBC) (85022) or Hemogram and platelet count, automated, and automated complete differential WBC count (CBC) (85025), and Thyroid stimulating hormone (TSH) (84443).)
- 80051      Electrolyte panel (This panel must include the following: Carbon dioxide (82374), Chloride (82435), Potassium (84132), and Sodium (84295).)
- 80053      Comprehensive metabolic panel (This panel must include the following: Albumin (82040), Bilirubin, total (82247), Calcium (82310), Carbon dioxide (bicarbonate) (82374), Chloride (82435), Creatinine (82565), Glucose (82947), Phosphatase, alkaline (84075), Potassium (84132), Protein, total (84155), Sodium (84295), Transferase, alanine amino (ALT) (SGPT) (84460), Transferase, aspartate amino (AST) (SGOT) (84450), and Urea Nitrogen (BUN) (84520).)
- 80055      Obstetric panel (This panel must include the following: Hemogram, automated, and manual differential WBC count (CBC) (85022) or Hemogram and platelet count, automated, and automated complete differential WBC count (CBC) (85025), Hepatitis B surface antigen (HbsAg) (87340), Antibody, rubella (86762), Syphilis test, qualitative (e.g., VDRL, RPR, ART) (86592), Antibody screen, RBC, each serum technique (86850), Blood typing, ABO (86900), and Blood typing, Rh (D) (86901).)
- 80061      Lipid panel (This panel must include the following: Cholesterol, serum, total (82465), Lipoprotein, direct measurement, high density cholesterol (HDL cholesterol) (83718), and Triglycerides (84478).)
- 80069      Renal function panel (This panel must include the following: Albumin (82040), Calcium (82310), Carbon dioxide (bicarbonate) (82374), Chloride (82435), Creatinine (82565), Glucose (82947), Phosphorus inorganic (phosphate) (84100), Potassium (84132), Sodium (84295), and Urea nitrogen (BUN) (84520).)

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- 80074 Acute hepatitis panel (This panel must include the following: Hepatitis A antibody (HAAb), IgM antibody (86709), Hepatitis B core antibody (HbcAb), IgM antibody (86705), Hepatitis B surface antigen (HbsAg) (87340), and Hepatitis C antibody (86803).)
- 80076 Hepatic function panel (This panel must include the following: Albumin (82040), Bilirubin, total (82247), Bilirubin, direct (82248), Phosphatase, alkaline (84075), Protein, total (84155), Transferase, alanine amino (ALT) (SGPT) (84460), and Transferase, aspartate amino (AST) (SGOT) (84450).)
- 80090 TORCH antibody panel (This panel must include the following tests: Antibody, cytomegalovirus (CMV) (86644), Antibody, herpes simplex, non-specific type test (86694), Antibody, rubella (86762), and Antibody, toxoplasma (86777).)

**DRUG TESTING**

The following list contains examples of drugs or classes of drugs that are commonly assayed by qualitative screen, followed by confirmation with a second method.

Alcohols  
 Amphetamines  
 Barbiturates  
 Benzodiazepines  
 Cocaine and metabolites  
 Methadones  
 Methaqualones  
 Opiates  
 Phencyclidines  
 Phenothiazines  
 Propoxyphenes  
 Tetrahydrocannabinoids  
 Tricyclic antidepressants

Confirmed drugs may also be quantitated. Qualitative screening tests are coded by procedure, not method or analyte. For example, if chromatography is being used, code each combination of stationary and mobile phases separately using 80100 if the analysis is designed to detect multiple drug classes or 80101 if the procedure is capable of detecting a single class of drugs.

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Use 80102 for each procedure necessary for confirmation, e.g., if confirmation of three drugs by chromatography requires three stationary or mobile phases, use 80102 three times. However, if multiple drugs can be confirmed using a single analysis, use 80102 only once.

For quantitation of drugs screened, use the appropriate code in the chemistry section (82000-84999) or the therapeutic drug assay section (80150-80299).

The following codes (80100-80103) should be used for testing of other drugs which may not be listed above:

- 80100 Drug screen, qualitative; multiple drug classes chromatographic method, each procedure
- 80101      single drug class method (e.g., immunoassay, enzyme assay), each drug class
- 80102 Drug confirmation, each procedure
- 80103 Tissue preparation for drug analysis (I.C.)

### **THERAPEUTIC DRUG ASSAYS**

The material for examination may be from any source. Examination is quantitative. For nonquantitative testing, see drug testing (80100-80103).

- 80150 Amikacin
- 80152 Amitriptyline
- 80154 Benzodiazepines
- 80156 Carbamazepine; total
- 80157      free
- 80158 Cyclosporine
- 80160 Desipramine
- 80162 Digoxin
- 80164 Dipropylacetic acid (valproic acid)
- 80166 Doxepin
- 80168 Ethosuximide
- 80170 Gentamicin
- 80172 Gold
- 80173 Haloperidol
- 80174 Imipramine
- 80176 Lidocaine
- 80178 Lithium
- 80182 Nortriptyline
- 80184 Phenobarbital
- 80185 Phenytoin; total
- 80186      free
- 80188 Primidone

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- 80190 Procainamide
- 80192      with metabolites (e.g., n-acetyl procainamide)
- 80194 Quinidine
- 80196 Salicylate
- 80197 Tacrolimus
- 80198 Theophylline
- 80200 Tobramycin
- 80201 Topiramate
- 80202 Vancomycin
- 80299 Quantitation of drug, not elsewhere specified

**EVOCATIVE/SUPPRESSION TESTING**

- 80400 ACTH stimulation panel; for adrenal insufficiency (This panel must include the following: Cortisol (82533 x 2).)
- 80402      for 21 hydroxylase deficiency (This panel must include the following: Cortisol (82533 x 2) and 17 hydroxyprogesterone (83498 x 2).)
- 80406      for 3 beta-hydroxydehydrogenase deficiency (This panel must include the following: Cortisol (82533 x 2) and 17 hydroxypregnenolone (84143 x 2).) (I.C.)
- 80408 Aldosterone suppression evaluation panel (e.g., saline infusion) (This panel must include the following: Aldosterone (82088 x 2) and Renin (84244 x 2).)
- 80410 Calcitonin stimulation panel (e.g., calcium, pentagastrin) (This panel must include the following: Calcitonin (82308 x 3).)
- 80412 Corticotropin releasing hormone (CRH) stimulation panel (This panel must include the following: Cortisol (82533 x 6) and Adrenocorticotropin hormone (ACTH) (82024 x 6).)
- 80414 Chorionic gonadotropin stimulation panel; testosterone response (This panel must include the following: Testosterone (84403 x 2 on three pooled blood samples).)
- 80415      estradiol response (This panel must include the following: Estradiol (82670 x 2 on three pooled blood samples).)
- 80416 Renal vein renin stimulation panel (e.g., captopril) (This panel must include the following: Renin (84244 x 6).)
- 80417 Peripheral vein renin stimulation panel (e.g., captopril) (This panel must include the following: Renin (84244 x 2).)
- 80418 Combined rapid anterior pituitary evaluation panel (This panel must include the following: Adrenocorticotropin hormone (ACTH) (82024 x 4), Luteinizing hormone (LH) (83002 x 4), Follicle stimulating hormone (FSH) (83001 x 4), Prolactin (84146 x 4), Human growth hormone (HGH) (83003 x 4), Cortisol (82533 x 4), and Thyroid stimulating hormone (TSH) (84443 x 4).)
- 80420 Dexamethasone suppression panel, 48 hour (This panel must include the following: Free cortisol, urine (82530 x 2), Cortisol (82533 x 2), and Volume measurement for timed collection (81050 x 2).) (For single dose dexamethasone, use 82533.)

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- 80422 Glucagon tolerance panel; for insulinoma (This panel must include the following: Glucose (82947 x 3) and insulin (83525 x 3).)
- 80424 for pheochromocytoma (This panel must include the following: Catecholamines, fractionated (82384 x 2).)
- 80426 Gonadatropin releasing hormone stimulation panel (This panel must include the following: Follicle stimulating hormone (FSH) (83001 x 4) and Luteinizing hormone (LH) (83002 x 4).)
- 80428 Growth hormone stimulation panel (e.g., arginine infusion, l-dopa administration). (This panel must include the following: Human growth hormone (HGH) (83003 x 4).)
- 80430 Growth hormone suppression panel (glucose administration) (This panel must include the following: Glucose (82947 x 3) and Human growth hormone (HGH) (83003 x 4).)
- 80432 Insulin-induced C-peptide suppression panel (This panel must include the following: Insulin (83525), C-peptide (84681 x 5), and Glucose (82947 x 5).)
- 80434 Insulin tolerance panel; for ACTH insufficiency (This panel must include the following: Cortisol (82533 x 5) and Glucose (82947 x 5).)
- 80435 for growth hormone deficiency (This panel must include the following: Glucose (82947 x 5) and Human growth hormone (HGH) (83003 x 5).)
- 80436 Metyrapone panel (This panel must include the following: Cortisol (82533 x 2) and 11 deoxycortisol (82634 x 2).)
- 80438 Thyrotropin releasing hormone (TRH) stimulation panel; one hour (This panel must include the following: Thyroid stimulating hormone (TSH) (84443 x 3).)
- 80439 two hours (This panel must include the following: Thyroid stimulating hormone (TSH) (84443 x 4).)
- 80440 for hyperprolactinemia (This panel must include the following: Prolactin (84146 x 3).)

**URINALYSIS**

- 81000 Urinalysis, by dip stick or tablet reagent for bilirubin, glucose, hemoglobin, ketones, leukocytes, nitrite, pH, protein, specific gravity, urobilinogen, any number of these constituents; non-automated, with microscopy
- 81001 automated, with microscopy
- 81002 non-automated, without microscopy
- 81003 automated, without microscopy
- 81005 Urinalysis; qualitative or semiquantitative, except immunoassays
- 81007 bacteriuria screen, except by culture or dipstick (specify type)
- 81015 microscopic only
- 81020 two or three glass test
- 81025 Urine pregnancy test, by visual color comparison methods
- 81050 Volume measurement for timed collection, each
- 81099 Unlisted urinalysis procedure (I.C.)

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**CHEMISTRY**

The material for examination may be from any source. Examination is quantitative unless specified.

Clinical information derived from the results of laboratory data that is mathematically calculated (e.g., free thyroxine index (T7)) is considered part of the test procedure and therefore is not a separately reportable service.

82000	Acetaldehyde, blood
82003	Acetaminophen
82009	Acetone or other ketone bodies, serum; qualitative
82010	quantitative
82013	Acetylcholinesterase
82016	Acylcarnitines; qualitative, each specimen
82017	quantitative, each specimen
82024	Adrenocorticotrophic hormone (ACTH)
82030	Adenosine; 5-monophosphate, cyclic (cyclic AMP)
82040	Albumin; serum
82042	urine or other source, quantitative, each specimen
82043	urine, microalbumin, quantitative
82044	urine, microalbumin, semiquantitative (e.g., reagent strip assay)
82055	Alcohol (ethanol); any specimen except breath
82085	Aldolase
82088	Aldosterone
82101	Alkaloids, urine, quantitative
82103	Alpha-1-antitrypsin; total
82104	phenotype
82105	Alpha-fetoprotein; serum
82106	amniotic fluid
82108	Aluminum
82120	Amines, vaginal fluid, qualitative
82127	Amino acids; single, qualitative, each specimen
82128	multiple, qualitative, each specimen
82131	single, quantitative, each specimen
82135	Aminolevulinic acid, delta (ALA)
82136	Amino acids, 2 to 5 amino acids, quantitative, each specimen
82139	Amino acids, 6 or more amino acids, quantitative, each specimen
82140	Ammonia
82143	Amniotic fluid scan (spectrophotometric)



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82145	Amphetamine or methamphetamine
82150	Amylase
82154	Androstenediol glucuronide (I.C.)
82157	Androstenedione
82160	Androsterone
82163	Angiotensin II
82164	Angiotensin I - converting enzyme (ACE)
82172	Apolipoprotein, each
82175	Arsenic
82180	Ascorbic acid (vitamin C), blood
82190	Atomic absorption spectroscopy, each analyte
82205	Barbiturates, not elsewhere specified
82232	Beta-2 microglobulin
82239	Bile acids; total
82240	cholyglycine
82247	Bilirubin; total
82248	direct
82252	feces, qualitative
82261	Biotinidase, each specimen
82270	Blood, occult, by peroxidase activity (e.g., guaiac), qualitative; feces, 1-3 simultaneous determinations
82273	other sources
82274	Blood, occult, by fecal hemoglobin determination by immunoassay, qualitative, feces, 1-3 simultaneous determinations
82286	Bradykinin
82300	Cadmium
82306	Calcifediol (25-OH vitamin D-3)
82307	Calciferol (vitamin D)
82308	Calcitonin
82310	Calcium; total
82330	ionized
82331	after calcium infusion test
82340	urine quantitative, timed specimen
82355	Calculus; qualitative analysis
82360	quantitative analysis, chemical
82365	infrared spectroscopy
82370	x-ray diffraction
82373	Carbohydrate deficient transferrin
82374	Carbon dioxide (bicarbonate)
82375	Carbon monoxide (carboxyhemoglobin); quantitative
82376	qualitative
82378	Carcinoembryonic antigen (CEA)
82379	Carnitine (total and free), quantitative, each specimen

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82380	Carotene
82382	Catecholamines; total urine
82383	blood
82384	fractionated
82387	Cathepsin-D
82390	Ceruloplasmin
82397	Chemiluminescent assay
82415	Chloramphenicol
82435	Chloride; blood
82436	urine
82438	other source
82441	Chlorinated hydrocarbons, screen
82465	Cholesterol, serum or whole blood, total
82480	Cholinesterase; serum
82482	RBC
82485	Chondroitin B sulfate, quantitative
82486	Chromatography, qualitative; column (e.g., gas liquid or HPLC), analyte not elsewhere specified
82487	paper, 1-dimensional, analyte not elsewhere specified
82488	paper, 2-dimensional, analyte not elsewhere specified
82489	thin layer, analyte not elsewhere specified
82491	Chromatography, quantitative, column (e.g., gas liquid or HPLC); single analyte not elsewhere specified, single stationary and mobile phase
82492	multiple analytes, single stationary and mobile phase
82495	Chromium
82507	Citrate
82520	Cocaine or metabolite
82523	Collagen cross links, any method
82525	Copper
82528	Corticosterone
82530	Cortisol; free
82533	total
82540	Creatine
82541	Column chromatography/mass spectrometry (e.g., GC/MS, or HPLC/MS), analyte not elsewhere specified; qualitative, single stationary and mobile phase
82542	quantitative, single stationary and mobile phase
82543	stable isotope dilution, single analyte, quantitative, single stationary and mobile phase
82544	stable isotope dilution, multiple analytes, quantitative, single stationary and mobile phase
82550	Creatine kinase (CK), (CPK); total
82552	isoenzymes
82553	MB fraction only
82554	isoforms

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82565	Creatinine; blood
82570	other source
82575	clearance
82585	Cryofibrinogen
82595	Cryoglobulin, qualitative or semi-quantitative (e.g., cryocrit)
82600	Cyanide
82607	Cyanocobalamin (vitamin B-12)
82608	unsaturated binding capacity
82615	Cystine and homocystine, urine, qualitative
82626	Dehydroepiandrosterone (DHEA)
82627	Dehydroepiandrosterone-sulfate (DHEA-S)
82633	Desoxycorticosterone, 11-
82634	Deoxycortisol, 11-
82638	Dibucaine number
82646	Dihydrocodeinone
82649	Dihydromorphinone
82651	Dihydrotestosterone (DHT)
82652	Dihydroxyvitamin D, 1,25-
82654	Dimethadione
82657	Enzyme activity in blood cells, cultured cells, or tissue, not elsewhere specified; nonradioactive substrate, each specimen
82658	radioactive substrate, each specimen
82664	Electrophoretic technique, not elsewhere specified
82666	Epiandrosterone
82668	Erythropoietin
82670	Estradiol
82671	Estrogens; fractionated
82672	total
82677	Estriol
82679	Estrone
82690	Ethchlorvynol
82693	Ethylene glycol
82696	Etiocholanolone
82705	Fat or lipids, feces; qualitative
82710	quantitative
82715	Fat differential, feces, quantitative
82725	Fatty acids, nonesterified
82726	Very long chain fatty acids
82728	Ferritin

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82731	Fetal fibronectin, cervicovaginal secretions, semi-quantitative
82735	Fluoride
82742	Flurazepam
82746	Folic acid; serum
82747	RBC
82757	Fructose, semen
82759	Galactokinase, RBC
82760	Galactose
82775	Galactose-1-phosphate uridyl transferase; quantitative
82776	screen
82784	Gammaglobulin; IgA, IgD, IgG, IgM, each
82785	IgE
82787	immunoglobulin subclasses (IgG1, 2, 3, or 4), each
82800	Gases, blood, pH only
82803	Gases, blood, any combination of pH, pCO <sub>2</sub> , pO <sub>2</sub> , CO <sub>2</sub> , HCO <sub>3</sub> (including calculated O <sub>2</sub> saturation)
82805	with O <sub>2</sub> saturation, by direct measurement, except pulse oximetry
82810	Gases, blood, O <sub>2</sub> saturation only, by direct measurement, except pulse oximetry
82820	Hemoglobin-oxygen affinity (pO <sub>2</sub> for 50% hemoglobin saturation with oxygen)
82926	Gastric acid, free and total, each specimen
82928	Gastric acid, free or total; each specimen
82938	Gastrin after secretin stimulation
82941	Gastrin
82943	Glucagon
82945	Glucose, body fluid, other than blood
82946	Glucagon tolerance test
82947	Glucose; quantitative, blood (except reagent strip)
82948	blood, reagent strip
82950	post-glucose dose (includes glucose)
82951	tolerance test (GTT), three specimens (includes glucose)
82952	tolerance test, each additional beyond three specimens
82953	tolbutamide tolerance test
82955	Glucose-6-phosphate dehydrogenase (G6PD); quantitative
82960	screen
82963	Glucosidase, beta
82965	Glutamate dehydrogenase
82975	Glutamine (glutamic acid amide)
82977	Glutamyltransferase, gamma (GGT)
82978	Glutathione
82979	Glutathione reductase, RBC
82980	Glutethimide

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82985	Glycated protein
83001	Gonadotropin; follicle-stimulating hormone (FSH)
83002	luteinizing hormone (LH)
83003	Growth hormone, human (HGH) (somatotropin)
83008	Guanosine monophosphate (GMP), cyclic
83010	Haptoglobin; quantitative
83012	phenotypes
83013	Helicobacter pylori; analysis for urease activity, non-radioactive isotope
83014	drug administration and sample collection
83015	Heavy metal (arsenic, barium, beryllium, bismuth, antimony, mercury); screen
83018	quantitative, each
83020	Hemoglobin fractionation and quantitation; electrophoresis (e.g., A2, S, C, and/or F)
83021	chromatography (e.g., A2, S, C, and/or F)
83026	Hemoglobin; by copper sulfate method, non-automated
83030	F (fetal), chemical
83033	F (fetal), qualitative
83036	glycated
83045	methemoglobin, qualitative
83050	methemoglobin, quantitative
83051	plasma
83055	sulfhemoglobin, qualitative
83060	sulfhemoglobin, quantitative
83065	thermolabile
83068	unstable, screen
83069	urine
83070	Hemosiderin; qualitative
83071	quantitative
83080	b-Hexosaminidase, each assay
83088	Histamine
83090	Homocystine
83150	Homovanillic acid (HVA)
83491	Hydroxycorticosteroids, 17- (17-OHCS)
83497	Hydroxyindolacetic acid, 5- (HIAA)
83498	Hydroxyprogesterone, 17-d
83499	Hydroxyprogesterone, 20-
83500	Hydroxyproline; free
83505	total
83516	Immunoassay for analyte other than infectious agent antibody or infectious agent antigen, qualitative or semiquantitative; multiple step method
83518	single step method (e.g., reagent strip)

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Code      Service Description

83519	Immunoassay, analyte, quantitative; by radiopharmaceutical technique (e.g., RIA)
83520	not otherwise specified
83525	Insulin; total
83527	free (I.C.)
83528	Intrinsic factor
83540	Iron
83550	Iron-binding capacity
83570	Isocitric dehydrogenase (IDH)
83582	Ketogenic steroids, fractionation
83586	Ketosteroids, 17- (17-KS); total
83593	fractionation
83605	Lactate (lactic acid)
83615	Lactate dehydrogenase (LD), (LDH);
83625	isoenzymes, separation and quantitation
83632	Lactogen, human placental (HPL) human chorionic somatomammotropin
83633	Lactose, urine; qualitative
83634	quantitative
83655	Lead
83661	Fetal lung maturity assessment; lecithin sphingomyelin (L/S) ratio
83662	foam stability test
83663	fluorescence polarization
83664	lamellar body density
83670	Leucine aminopeptidase (LAP)
83690	Lipase
83715	Lipoprotein, blood; electrophoretic separation and quantitation
83716	high resolution fractionation and quantitation of lipoprotein cholesterol (e.g., electrophoresis, nuclear magnetic resonance, ultracentrifugation)
83718	Lipoprotein, direct measurement; high density cholesterol (HDL cholesterol)
83719	direct measurement, VLDL cholesterol
83721	direct measurement, LDL cholesterol
83727	Luteinizing-releasing factor (LRH)
83735	Magnesium
83775	Malate dehydrogenase
83785	Manganese
83788	Mass spectrometry and tandem mass spectrometry (MS, MS/MS), analyte not elsewhere specified;
	qualitative, each specimen
83789	quantitative, each specimen
83805	Meprobamate
83825	Mercury, quantitative
83835	Metanephrines
83840	Methadone
83857	Methemalbumin
83858	Methsuximide

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Service

Code      Service Description

83864      Mucopolysaccharides, acid; quantitative  
 83866           screen  
 83872      Mucin, synovial fluid (Ropes test)  
 83873      Myelin basic protein, cerebrospinal fluid  
 83874      Myoglobin  
 83883      Nephelometry, each analyte not elsewhere specified  
 83885      Nickel  
 83887      Nicotine

### **Molecular Diagnostics**

The series of codes 83890-83912 is intended for use with molecular diagnostic techniques for analysis of nucleic acids. These services are coded by procedure rather than analyte. Code separately for each procedure used in an analysis. For example, a procedure requiring isolation of DNA, restriction endonuclease digestion, electrophoresis, and nucleic acid probe amplification would be coded 83890, 83892, 83894, and 83898.

83890      Molecular diagnostics; molecular isolation or extraction  
 83891           isolation or extraction of highly purified nucleic acid  
 83892           enzymatic digestion  
 83893           dot/slot blot production  
 83894           separation by gel electrophoresis (e.g., agarose, polyacrylamide)  
 83896           nucleic acid probe, each  
 83897           nucleic acid transfer (e.g., Southern, Northern)  
 83898           amplification of patient nucleic acid (e.g., PCR, LCR, RT-PCR), single primer pair, each primer pair  
 83901           amplification of patient nucleic acid, multiplex, each multiplex reaction  
 83902           reverse transcription  
 83903           mutation scanning, by physical properties (e.g., single strand conformational polymorphisms (SSCP), heteroduplex, denaturing gradient gel electrophoresis (DGGE), RNA'ase A), single segment, each  
 83904           mutation identification by sequencing, single segment, each segment  
 83905           mutation identification by allele specific transcription, single segment, each segment  
 83906           mutation identification by allele specific translation, single segment, each segment  
 83912           interpretation and report  
 83915      Nucleotidase 5-  
 83916      Oligoclonal immune (oligoclonal bands)  
 83918      Organic acids; total, quantitative, each specimen  
 83919           qualitative, each specimen  
 83921      Organic acid, single, quantitative  
 83925      Opiates (e.g., morphine, meperidine)

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Service

<u>Code</u>	<u>Service Description</u>
83930	Osmolality; blood
83935	urine
83937	Osteocalcin (bone gla protein) (I.C.)
83945	Oxalate
83950	Oncoprotein, HER-2/neu
83970	Parathormone (parathyroid hormone)
83986	pH, body fluid, except blood
83992	Phencyclidine (PCP)
84022	Phenothiazine
84030	Phenylalanine (PKU), blood
84035	Phenylketones, qualitative
84060	Phosphatase, acid; total
84066	prostatic
84075	Phosphatase, alkaline;
84078	heat stable (total not included)
84080	isoenzymes
84081	Phosphatidylglycerol
84085	Phosphogluconate, 6-, dehydrogenase, RBC
84087	Phosphohexose isomerase
84100	Phosphorus inorganic (phosphate);
84105	urine
84106	Porphobilinogen, urine; qualitative
84110	quantitative
84119	Porphyrins, urine; qualitative
84120	quantitation and fractionation
84126	Porphyrins, feces; quantitative
84127	qualitative
84132	Potassium; serum
84133	urine
84134	Prealbumin
84135	Pregnanediol
84138	Pregnanetriol
84140	Pregnenolone (I.C.)
84143	17-hydroxypregnenolone (I.C.)
84144	Progesterone
84146	Prolactin
84150	Prostaglandin, each
84152	Prostate specific antigen (PSA); complexed (direct measurement)
84153	total
84154	free



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Service  
Code

Service Description

84155	Protein; total, except refractometry
84160	refractometric
84165	electrophoretic fractionation and quantitation
84181	Western Blot, with interpretation and report, blood or other body fluid
84182	Western Blot, with interpretation and report, blood or other body fluid, immunological probe for band identification, each
84202	Protoporphyrin, RBC; quantitative
84203	screen
84206	Proinsulin
84207	Pyridoxal phosphate (vitamin B-6)
84210	Pyruvate
84220	Pyruvate kinase
84228	Quinine
84233	Receptor assay; estrogen
84234	progesterone
84235	endocrine, other than estrogen or progesterone (specify hormone)
84238	non-endocrine (e.g., acetylcholine) (specify receptor)
84244	Renin
84252	Riboflavin (vitamin B-2)
84255	Selenium
84260	Serotonin
84270	Sex hormone binding globulin (SHBG)
84275	Sialic acid
84285	Silica
84295	Sodium; serum
84300	urine
84305	Somatomedin
84307	Somatostatin
84311	Spectrophotometry, analyte not elsewhere specified
84315	Specific gravity (except urine)
84375	Sugars, chromatographic, TLC or paper chromatography
84376	Sugars (mon-, di, and oligosaccharides); single qualitative, each specimen
84377	multiple qualitative, each specimen
84378	single quantitative, each specimen
84379	multiple quantitative, each specimen
84392	Sulfate, urine
84402	Testosterone; free
84403	total
84425	Thiamine (vitamin B-1)
84430	Thiocyanate
84432	Thyroglobulin

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Service

Code	Service Description
84436	Thyroxine; total
84437	requiring elution (e.g., neonatal)
84439	free
84442	Thyroxine binding globulin (TBG)
84443	Thyroid-stimulating hormone (TSH)
84445	Thyroid-stimulating immune globulins (TSI)
84446	Tocopherol alpha (vitamin E)
84449	Transcortin (cortisol binding globulin) (I.C.)
84450	Transferase; aspartate amino (AST) (SGOT)
84460	alanine amino (ALT) (SGPT)
84466	Transferrin (I.C.)
84478	Triglycerides
84479	Thyroid hormone (T3 or T4) uptake or thyroid hormone binding ratio (THBR)
84480	Triiodothyronine T3; total (TT-3)
84481	free
84482	reverse
84484	Troponin, quantitative
84485	Trypsin; duodenal fluid
84488	feces, qualitative
84490	feces, quantitative, 24-hour collection
84510	Tyrosine
84512	Troponin, qualitative
84520	Urea nitrogen; quantitative
84525	semiquantitative (e.g., reagent strip test)
84540	Urea nitrogen, urine
84545	Urea nitrogen, clearance
84550	Uric acid; blood
84560	other source
84577	Urobilinogen, feces, quantitative
84578	Urobilinogen, urine; qualitative
84580	quantitative, timed specimen
84583	semiquantitative
84585	Vanillylmandelic acid (VMA), urine
84586	Vasoactive intestinal peptide (VIP) (I.C.)
84588	Vasopressin (antidiuretic hormone, ADH)
84590	Vitamin A
84591	Vitamin, not otherwise specified
84597	Vitamin K
84600	Volatiles (e.g., acetic anhydride, carbon tetrachloride, dichloroethane, dichloromethane, diethylether, isopropyl alcohol, methanol)
84620	Xylose absorption test, blood and/or urine

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601 Laboratory Service Codes and Descriptions

Service  
Code

Service Description

84630 Zinc  
 84681 C-peptide  
 84702 Gonadotropin, chorionic (hCG); quantitative  
 84703 qualitative  
 84999 Unlisted chemistry procedure (I.C.)

**HEMATOLOGY AND COAGULATION**

85002 Bleeding time  
 85007 Blood count; manual differential WBC count (includes RBC morphology and platelet estimation)  
 85008 manual blood smear examination without differential parameters  
 85009 differential WBC count, buffy coat  
 85013 spun microhematocrit  
 85014 other than spun hematocrit  
 85018 hemoglobin  
 85021 hemogram, automated (RBC, WBC, Hgb, Hct, and indices only)  
 85022 hemogram, automated, and manual differential WBC count (CBC)  
 85023 hemogram and platelet count, automated, and manual differential WBC count (CBC)  
 85024 hemogram and platelet count, automated, and automated partial differential WBC count (CBC)  
 85025 hemogram and platelet count, automated, and automated complete differential WBC count (CBC)  
 85027 hemogram and platelet count, automated  
 85031 Blood count; hemogram, manual, complete CBC (RBC, WBC, Hgb, Hct, differential and indices)  
 85041 red blood cell (RBC) only  
 85044 reticulocyte count, manual  
 85045 reticulocyte count, flow cytometry  
 85046 reticulocytes, hemoglobin concentration  
 85048 white blood cell (WBC)  
 85060 Blood smear, peripheral, interpretation by physician with written report  
 85097 Bone marrow, smear interpretation  
 85130 Chromogenic substrate assay  
 85170 Clot retraction  
 85175 Clot lysis time, whole blood dilution  
 85210 Clotting; factor II, prothrombin, specific  
 85220 factor V (AcG or proaccelerin), labile factor  
 85230 factor VII (proconvertin, stable factor)  
 85240 factor VIII (AHG), one stage  
 85244 factor VIII related antigen  
 85245 factor VIII, VW factor, ristocetin cofactor

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601 Laboratory Service Codes and Descriptions

Service

Code      Service Description

85246	factor VIII, VW factor antigen
85247	factor VIII, von Willebrand factor, multimetric analysis
85250	factor IX (PTC or Christmas)
85260	factor X (Stuart-Prower)
85270	factor XI (PTA)
85280	factor XII (Hageman)
85290	factor XIII (fibrin stabilizing)
85291	factor XIII (fibrin stabilizing), screen solubility
85292	prekallikrein assay (Fletcher factor assay)
85293	high molecular weight kininogen assay (Fitzgerald factor assay)
85300	Clotting inhibitors or anticoagulants; antithrombin III, activity
85301	antithrombin III, antigen assay
85302	protein C, antigen
85303	protein C, activity
85305	protein S, total
85306	protein S, free
85307	Activated Protein C (APC) resistance assay
85335	Factor inhibitor test
85337	Thrombomodulin
85345	Coagulation time; Lee and White
85347	activated
85348	other methods
85360	Euglobulin lysis
85362	Fibrin(ogen) degradation (split) products (FDP)(FSP); agglutination slide; semiquantitative
85366	paracoagulation
85370	quantitative
85378	Fibrin degradation products, D-dimer; semiquantitative
85379	quantitative
85384	Fibrinogen; activity
85385	antigen
85390	Fibrinolysins or coagulopathy screen, interpretation and report
85400	Fibrinolytic factors and inhibitors; plasmin
85410	alpha-2 antiplasmin
85415	plasminogen activator
85420	plasminogen, except antigenic assay
85421	plasminogen, antigenic assay
85441	Heinz bodies; direct
85445	induced, acetyl phenylhydrazine
85460	Hemoglobin or RBCs, fetal, for fetomaternal hemorrhage; differential lysis (Kleihauer-Betke)
85461	rosette
85475	Hemolysin, acid
85520	Heparin assay
85525	Heparin neutralization
85530	Heparin-protamine tolerance test

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601 Laboratory Service Codes and Descriptions

Service

Code    Service Description

85536    Iron stain, peripheral blood  
85540    Leukocyte alkaline phosphatase with count  
85547    Mechanical fragility, RBC  
85549    Muramidase  
85555    Osmotic fragility, RBC; unincubated  
85557           incubated  
85576    Platelet; aggregation (in vitro), each agent  
85585           estimation on smear, only  
85590           manual count  
85595           automated count  
85597    Platelet neutralization  
85610    Prothrombin time;  
85611           substitution, plasma fractions, each  
85612    Russell viper venom time (includes venom); undiluted  
85613           diluted  
85635    Reptilase test  
85651    Sedimentation rate, erythrocyte; non-automated  
85652           automated  
85660    Sickling of RBC, reduction  
85670    Thrombin time; plasma  
85675           titer  
85705    Thromboplastin inhibition; tissue  
85730    Thromboplastin time, partial (PTT); plasma or whole blood  
85732           substitution, plasma fractions, each  
85810    Viscosity  
85999    Unlisted hematology and coagulation procedure (I.C.)

**IMMUNOLOGY**

86000    Agglutinins, febrile (e.g., Brucella, Francisella, Murine typhus, Q fever, Rocky Mountain spotted fever, scrub typhus), each antigen  
86001    Allergen specific IgG; quantitative or semiquantitative, each allergen  
86003    Allergen specific IgE; quantitative or semiquantitative, each allergen  
86005           qualitative, multiallergen screen (dipstick, paddle, or disk)  
86021    Antibody identification; leukocyte antibodies  
86022           platelet antibodies  
86023           platelet-associated immunoglobulin assay  
86038    Antinuclear antibodies (ANA);  
86039           titer  
86060    Antistreptolysin O; titer  
86063           screen

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601 Laboratory Service Codes and Descriptions

Service

<u>Code</u>	<u>Service Description</u>
86140	C-reactive protein;
86141	high sensitivity (hsCRP)
86146	Beta 2 Glycoprotein I antibody, each
86147	Cardiolipin (phospholipid) antibody, each Ig class
86148	Anti-phosphatidylserine (phospholipid) antibody
86155	Chemotaxis assay, specify method
86156	Cold agglutinin; screen
86157	titer
86160	Complement; antigen, each component
86161	functional activity, each component
86162	total hemolytic (CH50)
86171	Complement fixation tests, each antigen
86185	Counterimmunoelectrophoresis, each antigen
86215	Deoxyribonuclease, antibody
86225	Deoxyribonucleic acid (DNA), antibody; native or double stranded
86226	single stranded
86235	Extractable nuclear antigen, antibody to, any method (e.g., nRNP, SS-A, SS-B, Sm, RNP, Sc170, J01), each antibody
86243	Fc receptor
86255	Fluorescent noninfectious agent antibody; screen, each antibody
86256	titer, each antibody
86277	Growth hormone, human (HGH), antibody
86280	Hemagglutination inhibition test (HAI)
86294	Immunoassay for tumor antigen, qualitative or semiquantitative (e.g., bladder tumor antigen)
86300	Immunoassay for tumor antigen, quantitative; CA 15-3 (27.29)
86301	CA 19-9
86304	CA 125
86308	Heterophile antibodies; screening
86309	titer
86310	titers after absorption with beef cells and guinea pig kidney
86316	Immunoassay for tumor antigen; other antigen, quantitative (e.g., CA 50, 72-4, 549), each
86317	Immunoassay for infectious agent antibody, quantitative, not otherwise specified
86318	Immunoassay for infectious agent antibody, qualitative or semiquantitative, single step method (e.g., reagent strip)
86320	Immunoelectrophoresis; serum
86325	other fluids (e.g., urine, cerebrospinal fluid) with concentration
86327	crossed (two-dimensional assay)
86329	Immunodiffusion; not elsewhere specified
86331	gel diffusion, qualitative (Ouchterlony), each antigen or antibody
86332	Immune complex assay
86334	Immunofixation electrophoresis

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Service

Code      Service Description

86336	Inhibin A
86337	Insulin antibodies
86340	Intrinsic factor antibodies
86341	Islet cell antibody (I.C.)
86343	Leukocyte histamine release test (LHR)
86344	Leukocyte phagocytosis
86353	Lymphocyte transformation, mitogen (phytomitogen) or antigen-induced blastogenesis
86359	T cells; total count (I.C.)
86360	absolute CD4 and CD8 count, including ratio
86361	absolute CD4 count
86376	Microsomal antibodies (e.g., thyroid or liver-kidney), each
86378	Migration inhibitory factor test (MIF)
86382	Neutralization test, viral
86384	Nitroblue tetrazolium dye test (NTD)
86403	Particle agglutination; screen, each antibody
86406	titer, each antibody
86430	Rheumatoid factor; qualitative
86431	quantitative
86485	Skin test; candida
86490	coccidioidomycosis (I.C.)
86510	histoplasmosis (I.C.)
86586	unlisted antigen, each
86590	Streptokinase, antibody
86592	Syphilis test; qualitative (e.g., VDRL, RPR, ART)
86593	quantitative

The following codes (86602-86804) are qualitative or semiquantitative immunoassays performed by multiple step methods for the detection of antibodies to infectious agents. For immunoassays by single step method (e.g., reagent strips), use code 86318. Procedures for the identification of antibodies should be coded as precisely as possible. For example, an antibody to a virus could be coded with increasing specificity for virus, family, genus, species, or type. In some cases, further precision may be added to codes by specifying the class of immunoglobulin being detected. When multiple tests are done to detect antibodies to organisms classified more precisely than the specificity allowed by available codes, it is appropriate to code each as a separate service. For example, a test for antibody to an enterovirus is coded as 86658. Coxsackieviruses are enteroviruses, but there are no codes for the individual species of enterovirus. If assays are performed for antibodies to coxsackie A and B species, each assay should be separately coded. Similarly, if multiple assays are performed for antibodies of different immunoglobulin classes, each assay should be coded separately.

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Service

Code      Service Description

86602	Antibody; actinomyces
86603	adenovirus
86606	Aspergillus
86609	bacterium, not elsewhere specified
86611	Bartonella
86612	Blastomyces
86615	Bordetella
86617	Borrelia burgdorferi (Lyme disease) confirmatory test (e.g., Western blot or immunoblot)
86618	Borrelia burgdorferi (Lyme disease)
86619	Borrelia (relapsing fever)
86622	Brucella
86625	Campylobacter
86628	Candida
86631	Chlamydia
86632	Chlamydia, IgM
86635	Coccidioides
86638	Coxiella Brunetii (Q fever)
86641	Cryptococcus
86644	cytomegalovirus (CMV)
86645	cytomegalovirus (CMV), IgM
86648	Diphtheria
86651	encephalitis, California (La Crosse)
86652	encephalitis, Eastern equine
86653	encephalitis, St. Louis
86654	encephalitis, Western equine
86658	enterovirus (e.g., coxsackie, echo, polio)
86663	Epstein-Barr (EB) virus, early antigen (EA)
86664	Epstein-Barr (EB) virus, nuclear antigen (EBNA)
86665	Epstein-Barr (EB) virus, viral capsid (VCA)
86666	Ehrlichia
86668	Francisella Tularensis
86671	fungus, not elsewhere specified
86674	Giardia Lamblia
86677	Helicobacter pylori
86682	helminth, not elsewhere specified
86684	Hemophilus influenza
86687	HTLV-I
86688	HTLV-II
86689	HTLV or HIV antibody, confirmatory test (e.g., Western blot)
86692	hepatitis, delta agent
86694	herpes simplex, non-specific type test
86695	herpes simplex, type 1
86696	herpes simplex, type 2



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Service

<u>Code</u>	<u>Service Description</u>
86698	histoplasma
86701	HIV-1
86702	HIV-2
86703	HIV-1 and HIV-2, single assay
86704	Hepatitis B core antibody (HBcAb); total
86705	IgM antibody
86706	Hepatitis B surface antibody (HBsAb)
86707	Hepatitis Be antibody (HBeAb)
86708	Hepatitis A antibody (HAAb); total
86709	IgM antibody
86710	Antibody; influenza virus
86713	Legionella
86717	Leishmania
86720	Leptospira
86723	Listeria monocytogenes
86727	lymphocytic choriomeningitis
86729	Lymphogranuloma Venereum
86732	mucormycosis
86735	mumps
86738	Mycoplasma
86741	Neisseria meningitidis
86744	Nocardia
86747	parvovirus
86750	Plasmodium (malaria)
86753	protozoa, not elsewhere specified
86756	respiratory syncytial virus
86757	Rickettsia
86759	rotavirus
86762	rubella
86765	rubeola
86768	Salmonella
86771	Shigella
86774	tetanus
86777	Toxoplasma
86778	Toxoplasma, IgM
86781	Treponema Pallidum, confirmatory test (e.g., FTA-abs)
86784	trichinella
86787	varicella-zoster
86790	virus, not elsewhere specified
86793	Yersinia
86800	Thyroglobulin antibody
86803	Hepatitis C antibody;
86804	confirmatory test (e.g., immunoblot)

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601 Laboratory Service Codes and Descriptions

Service

Code    Service Description

**Tissue Typing**

- 86805 Lymphocytotoxicity assay, visual crossmatch; with titration
- 86806     without titration
- 86807 Serum screening for cytotoxic percent reactive antibody (PRA); standard method
- 86808     quick method
- 86812 HLA typing; A, B, or C (e.g., A10, B7, B27), single antigen
- 86813     A, B, or C, multiple antigens
- 86816     DR/DQ, single antigen
- 86817     DR/DQ, multiple antigens
- 86821     lymphocyte culture, mixed (MLC)
- 86822     lymphocyte culture, primed (PLC)
- 86849 Unlisted immunology procedure (I.C.)

**TRANSFUSION MEDICINE**

- 86850 Antibody screen, RBC, each serum technique (I.C.)
- 86860 Antibody elution (RBC), each elution (I.C.)
- 86870 Antibody identification, RBC antibodies, each panel for each serum technique (I.C.)
- 86880 Antihuman globulin test (Coombs test); direct, each antiserum
- 86885     indirect, qualitative, each antiserum
- 86886     indirect, titer, each antiserum
- 86900 Blood typing; ABO
- 86901     Rh (D) (I.C.)
- 86903     antigen screening for compatible blood unit using reagent serum, per unit screened
- 86904     antigen screening for compatible unit using patient serum, per unit screened
- 86905     RBC antigens, other than ABO or Rh (D), each
- 86906     Rh phenotyping, complete
- 86915 Bone marrow or peripheral stem cell harvest, modification or treatment to eliminate cell type(s)  
      (e.g., T-cells, metastatic carcinoma) (I.C.)
- 86920 Compatibility test each unit; immediate spin technique (I.C.)
- 86921     incubation technique (I.C.)
- 86922     antiglobulin technique (I.C.)
- 86940 Hemolysins and agglutinins; auto, screen, each
- 86941     incubated
- 86970 Pretreatment of RBCs for use in RBC antibody detection, identification, and/or compatibility  
      testing; incubation with chemical agents or drugs, each
- 86971     incubation with enzymes, each
- 86972     by density gradient separation
- 86975 Pretreatment of serum for use in RBC antibody identification; incubation with drugs, each
- 86976     by dilution
- 86977     incubation with inhibitors, each
- 86978     by differential red-cell absorption using patient RBCs or RBCs of known phenotype, each  
      absorption
- 86999 Unlisted transfusion medicine procedure (I.C.)

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Service

Code      Service Description

**MICROBIOLOGY**

- 87001 Animal inoculation, small animal; with observation
- 87003       with observation and dissection
- 87015 Concentration (any type), for infectious agents
- 87040 Culture, bacterial; blood, with isolation and presumptive identification of isolates (includes anaerobic culture, if appropriate)
- 87045       feces, with isolation and preliminary examination (e.g., KIA, LIA), Salmonella and Shigella species
- 87046       stool, additional pathogens, isolation and preliminary examination (e.g., Campylobacter, Yersinia, Vibrio, E. coli 0157), each plate
- 87070       any other source except urine, blood, or stool, with isolation and presumptive identification of isolates
- 87071       quantitative, aerobic with isolation and presumptive identification of isolates, any source except urine, blood, or stool
- 87073       quantitative, anaerobic with isolation and presumptive identification of isolates, any source except urine, blood, or stool
- 87075       any source, anaerobic with isolation and presumptive identification of isolates
- 87076       anaerobic isolate, additional methods required for definitive identification, each isolate
- 87077       aerobic isolate, additional methods required for definitive identification, each isolate
- 87081 Culture, presumptive, pathogenic organisms, screening only;
- 87084       with colony estimation from density chart
- 87086 Culture, bacterial; quantitative, colony count, urine
- 87088       with isolation and presumptive identification of isolates, urine
- 87101 Culture, fungi (mold or yeast) isolation, with presumptive identification of isolates; skin, hair, or nail
- 87102       other source (except blood)
- 87103       blood
- 87106 Culture, fungi, definitive identification, each organism; yeast (Use in addition to codes 87101, 87102, or 87103 when appropriate.)
- 87107       mold
- 87109 Culture, mycoplasma, any source
- 87110 Culture, chlamydia, any source
- 87116 Culture, tubercle or other acid-fast bacilli (e.g., TB, AFB, mycobacteria) any source, with isolation  
and presumptive identification of isolates
- 87118 Culture, mycobacteria, definitive identification, each isolate
- 87140 Culture, typing; immunofluorescent method, each antiserum
- 87143       gas-liquid chromatography (GLC) or high pressure liquid chromatography (HPLC) method
- 87147       immunologic method, other than immunofluorescence (e.g., agglutination grouping), per antiserum
- 87149       identification by nucleic acid probe
- 87152       identification by pulse field gel typing
- 87158       other methods

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- 87164    Dark field examination, any source (e.g., penile, vaginal, oral, skin); includes specimen collection
- 87166    without collection
- 87168    Macroscopic examination; arthropod
- 87169    parasite
- 87172    Pinworm exam (e.g., cellophane tape prep)
- 87176    Homogenization, tissue, for culture
- 87177    Ova and parasites, direct smears, concentration and identification
- 87181    Susceptibility studies, antimicrobial agent; agar dilution method, per agent (e.g., antibiotic gradient strip)
- 87184    disk method, per plate (12 or fewer agents)
- 87185    enzyme detection (e.g., beta lactamase), per enzyme
- 87186    microdilution or agar dilution (minimum inhibitory concentration (MIC) or breakpoint), each multiantimicrobial, per plate
- 87187    microdilution or agar dilution, minimum lethal concentration (MLC), each plate (List separately in addition to code for primary procedure.)
- 87188    macrobroth dilution method, each agent
- 87190    mycobacteria, proportion method, each agent
- 87197    Serum bactericidal titer (Schlicter test)
- 87198    Cytomegalovirus, direct fluorescent antibody (DFA)
- 87199    Enterovirus, direct fluorescent antibody (DFA)
- 87205    Smear, primary source with interpretation; Gram or Giemsa stain for bacteria, fungi, or cell types
- 87206    fluorescent and/or acid-fast stain for bacteria, fungi, parasites, viruses, or cell types
- 87207    special stain for inclusion bodies or intracellular parasites (e.g., malaria, coccidia, microsporidia, cytomegalovirus, herpes viruses)
- 87210    wet mount for infectious agents (e.g., saline, India ink, KOH preps)
- 87220    Tissue examination by KOH slide of samples from skin, hair, or nails for fungi or ectoparasite ova or mites (e.g., scabies)
- 87230    Toxin or antitoxin assay, tissue culture (e.g., Clostridium difficile toxin)
- 87250    Virus isolation; inoculation of embryonated eggs, or small animal, includes observation and dissection
- 87252    tissue culture inoculation, observation, and presumptive identification by cytopathic effect
- 87253    tissue culture, additional studies or definitive identification (e.g., hemabsorption, neutralization, immunofluorescence stain), each isolate
- 87254    shell vial, includes identification with immunofluorescence stain, each virus

Infectious agents by antigen detection, direct fluorescence microscopy; or nucleic acid probe techniques should be reported as precisely as possible. The most specific code possible should be reported. If there is no specific agent code, the general methodology code (e.g., 87299, 87449, 87450, 87797, 87798, 87799, 87899) should be used. For identification of antibodies to many of the listed infectious agents, see 86602-86804.

- 87260    Infectious agent antigen detection by immunofluorescent technique; adenovirus
- 87265    Bordetella pertussis/parapertussis
- 87270    Chlamydia trachomatis

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Service

<u>Code</u>	<u>Service Description</u>
87272	cryptosporidium/giardia
87273	Herpes simplex virus type 2
87274	Herpes simplex virus type 1
87275	influenza B virus
87276	influenza A virus
87277	Legionella micdadei
87278	Legionella pneumophila
87279	Parainfluenza virus, each type
87280	respiratory syncytial virus
87281	Pneumocystis carinii
87283	Rubeola
87285	Treponema pallidum
87290	Varicella zoster virus
87299	not otherwise specified, each organism
87300	Infectious agent antigen detection by immunofluorescent technique, polyvalent for multiple organisms, each polyvalent antiserum
87301	Infectious agent antigen detection by enzyme immunoassay technique, qualitative or semiquantitative, multiple step method; adenovirus enteric types 40/41
87320	Chlamydia trachomatis
87324	Clostridium difficile toxin(s) A
87327	Cryptococcus neoformans
87328	cryptosporidium/giardia
87332	cytomegalovirus
87335	Escherichia coli 0157
87336	Entamoeba histolytica dispar group
87337	Entamoeba histolytica group
87338	Helicobacter pylori, stool
87339	Helicobacter pylori
87340	hepatitis B surface antigen (HBsAg)
87341	hepatitis B surface antigen (HBsAg) neutralization
87350	hepatitis Be antigen (HBeAg)
87380	hepatitis, delta agent
87385	Histoplasma capsulatum
87390	HIV-1
87391	HIV-2
87400	influenza, A or B, each
87420	respiratory syncytial virus
87425	rotavirus
87427	Shiga-like toxin
87430	Streptococcus, group A
87449	Infectious agent antigen detection by enzyme immunoassay technique, qualitative or semiquantitative; multiple step method, not otherwise specified, each organism
87450	single step method, not otherwise specified, each organism
87451	multiple step method, polyvalent for multiple organisms, each polyvalent antiserum

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87470	Infectious agent detection by nucleic acid (DNA or RNA); Bartonella henselae and Bartonella quintana, direct probe technique
87471	Bartonella henselae and Bartonella quintana, amplified probe technique
87472	Bartonella henselae and Bartonella quintana, quantification
87475	Borrelia burgdorferi, direct probe technique
87476	Borrelia burgdorferi, amplified probe technique
87477	Borrelia burgdorferi, quantification
87480	Candida species, direct probe technique
87481	Candida species, amplified probe technique
87482	Candida species, quantification
87485	Chlamydia pneumoniae, direct probe technique
87486	Chlamydia pneumoniae, amplified probe technique
87487	Chlamydia pneumoniae, quantification
87490	Chlamydia trachomatis, direct probe technique
87491	Chlamydia trachomatis, amplified probe technique
87492	Chlamydia trachomatis, quantification
87495	cytomegalovirus, direct probe technique
87496	cytomegalovirus, amplified probe technique
87497	cytomegalovirus, quantification
87510	Gardnerella vaginalis, direct probe technique
87511	Gardnerella vaginalis, amplified probe technique
87512	Gardnerella vaginalis, quantification
87515	hepatitis B virus, direct probe technique
87516	hepatitis B virus, amplified probe technique
87517	hepatitis B virus, quantification
87520	hepatitis C, direct probe technique
87521	hepatitis C, amplified probe technique
87522	hepatitis C, quantification
87525	hepatitis G, direct probe technique
87526	hepatitis G, amplified probe technique
87527	hepatitis G, quantification
87528	herpes simplex virus, direct probe technique
87529	herpes simplex virus, amplified probe technique
87530	herpes simplex virus, quantification
87531	herpes virus-6, direct probe technique
87532	herpes virus-6, amplified probe technique
87533	herpes virus-6, quantification
87534	HIV-1, direct probe technique
87535	HIV-1, amplified probe technique
87536	HIV-1, quantification
87537	HIV-2, direct probe technique
87538	HIV-2, amplified probe technique
87539	HIV-2, quantification

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87540	Legionella pneumophila, direct probe technique
87541	Legionella pneumophila, amplified probe technique
87542	Legionella pneumophila, quantification
87550	Mycobacteria species, direct probe technique
87551	Mycobacteria species, amplified probe technique
87552	Mycobacteria species, quantification
87555	Mycobacteria tuberculosis, direct probe technique
87556	Mycobacteria tuberculosis, amplified probe technique
87557	Mycobacteria tuberculosis, quantification
87560	Mycobacteria avium-intracellulare, direct probe technique
87561	Mycobacteria avium-intracellulare, amplified probe technique
87562	Mycobacteria avium-intracellulare, quantification
87580	Mycoplasma pneumoniae, direct probe technique
87581	Mycoplasma pneumoniae, amplified probe technique
87582	Mycoplasma pneumoniae, quantification
87590	Neisseria gonorrhoeae, direct probe technique
87591	Neisseria gonorrhoeae, amplified probe technique
87592	Neisseria gonorrhoeae, quantification
87620	papillomavirus, human, direct probe technique
87621	papillomavirus, human, amplified probe technique
87622	papillomavirus, human, quantification
87650	Streptococcus, group A, direct probe technique
87651	Streptococcus, group A, amplified probe technique
87652	Streptococcus, group A, quantification
87797	Infectious agent detection by nucleic acid (DNA or RNA), not otherwise specified; direct probe technique, each organism
87798	amplified probe technique, each organism
87799	quantification, each organism
87800	Infectious agent detection by nucleic acid (DNA or RNA), multiple organisms; direct probe(s) technique
87801	amplified probe(s) technique
87802	Infectious agent antigen detection by immunoassay with direct optical observation; Streptococcus, group B
87803	Clostridium difficile toxin A
87804	influenza
87810	Infectious agent detection by immunoassay with direct optical observation; Chlamydia trachomatis
87850	Neisseria gonorrhoeae
87880	Streptococcus, group A
87899	not otherwise specified
87901	Infectious agent genotype analysis by nucleic acid (DNA or RNA); HIV 1, reverse transcriptase and protease (P.A. required for third and subsequent tests performed within a calendar year)
87902	Hepatitis C virus

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- 87903 Infectious agent phenotype analysis by nucleic acid (DNA or RNA) with drug resistance tissue culture analysis, HIV 1; first through 10 drugs tested (P.A.)  
87904 each additional one through five drugs tested (List separately in addition to code for primary procedure.) (Use 87904 in conjunction with 87903.) (P.A.)  
87999 Unlisted microbiology procedure (I.C.) (P.A.)

**ANATOMIC PATHOLOGY**

**Cytopathology**

- 88104 Cytopathology, fluids, washings or brushings, except cervical or vaginal; smears with interpretation  
88106 filter method only with interpretation  
88107 smears and filter preparation with interpretation  
88108 Cytopathology, concentration technique, smears and interpretation (e.g., Saccomanno technique)  
88130 Sex chromatin identification; Barr bodies  
88140 peripheral blood smear, polymorphonuclear drumsticks

Codes 88141-88155, 88164-88167 are used to report cervical or vaginal screening by various methods and to report physician interpretation services. Use codes 88150-88154 to report Pap smears that are examined using non-Bethesda reporting. Use codes 88164-88167 to report Pap smears that are examined using the Bethesda System of reporting. Use codes 88142-88145 to report specimens collected in fluid medium with automated thin layer preparation that are examined using any system of reporting (Bethesda or non-Bethesda). Within each of these three code families choose the one code that describes the screening method(s) used. Codes 88141 and 88155 should be reported in addition to the screening code chosen when the additional services are provided.

- 88141 Cytopathology, cervical or vaginal (any reporting system); requiring interpretation by physician (List separately in addition to code for technical service.)  
88142 Cytopathology, cervical or vaginal (any reporting system), collected in preservative fluid, automated thin layer preparation; manual screening under physician supervision  
88143 with manual screening and rescreening under physician supervision  
88144 with manual screening and computer-assisted rescreening under physician supervision  
88145 with manual screening and computer-assisted rescreening using cell selection and review under physician supervision  
88147 Cytopathology smears, cervical or vaginal; screening by automated system under physician supervision  
88148 screening by automated system with manual rescreening under physician supervision



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- 88150 Cytopathology, slides, cervical or vaginal; manual screening under physician supervision  
88152 with manual screening and computer-assisted rescreening under physician supervision  
88153 with manual screening and rescreening under physician supervision  
88154 with manual screening and computer-assisted rescreening using cell selection and review under physician supervision  
88155 Cytopathology, slides, cervical or vaginal, definitive hormonal evaluation (e.g., maturation index, karyopyknotic index, estrogenic index) (List separately in addition to code(s) for other technical and interpretation services.)  
88160 Cytopathology, smears, any other source; screening and interpretation  
88161 preparation, screening, and interpretation  
88162 extended study involving over 5 slides and/or multiple stains (I.C.)  
88164 Cytopathology, slides, cervical or vaginal (the Bethesda system); manual screening under physician supervision  
88165 with manual screening and rescreening under physician supervision  
88166 with manual screening and computer-assisted rescreening under physician supervision  
86167 with manual screening and computer-assisted rescreening using cell selection and review under physician supervision  
88172 Cytopathology, evaluation of fine needle aspirate; immediate cytohistologic study to determine adequacy of specimen(s) (I.C.)  
88173 interpretation and report  
88180 Flow cytometry; each cell surface, cytoplasmic or nuclear marker (I.C.)  
88182 cell cycle or DNA analysis (I.C.)  
88199 Unlisted cytopathology procedure (I.C.)

**Cytogenetic Studies**

- 88230 Tissue culture for non-neoplastic disorders; lymphocyte  
88233 skin or other solid tissue biopsy  
88235 amniotic fluid or chorionic villus cells  
88237 Tissue culture for neoplastic disorders; bone marrow, blood cells  
88239 solid tumor  
88240 Cryopreservation, freezing and storage of cells, each cell line  
88241 Thawing and expansion of frozen cells, each aliquot  
88245 Chromosome analysis for breakage syndromes; baseline Sister Chromatid Exchange (SCE), 20-25 cells  
88248 baseline breakage, score 50-100 cells, count 20 cells, 2 karyotypes, (e.g., for ataxia telangiectasia, Fanconi anemia, fragile X)  
88249 score 100 cells, clastogen stress (e.g., diepoxybutane, mitomycin C, ionizing radiation, UV radiation)  
88261 Chromosome analysis; count 5 cells, 1 karyotype, with banding  
88262 count 15-20 cells, 2 karyotypes, with banding  
88263 count 45 cells for mosaicism, 2 karyotypes, with banding  
88264 analyze 20-25 cells

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- 88267      Chromosome analysis, amniotic fluid or chorionic villus, count 15 cells, 1 karyotype, with banding
- 88269      Chromosome analysis, in situ for amniotic fluid cells, count cells from 6-12 colonies, 1 karyotype, with banding
- 88271      Molecular cytogenetics; DNA probe, each (e.g., FISH)
- 88272          chromosomal in situ hybridization, analyze 3-5 cells (e.g., for derivatives and markers)
- 88273          chromosomal in situ hybridization, analyze 10-30 cells (e.g., for microdeletions)
- 88274          interphase in situ hybridization, analyze 25-99 cells
- 88275          interphase in situ hybridization, analyze 100-300 cells
- 88280      Chromosome analysis; additional karyotypes, each study
- 88283          additional specialized banding technique (e.g., NOR, C-banding)
- 88285          additional cells counted, each study
- 88289          additional high resolution study
- 88291      Cytogenetics and molecular cytogenetics, interpretation and report
- 88299      Unlisted cytogenetic study (I.C.)

**SURGICAL PATHOLOGY**

Codes 88300 through 88309 are further clarified in the Current Procedural Terminology (CPT) code book.

- 88300      Level I - surgical pathology, gross examination only
- 88302      Level II - surgical pathology, gross and microscopic examination
- 88304      Level III - surgical pathology, gross and microscopic examination
- 88305      Level IV - surgical pathology, gross and microscopic examination
- 88307      Level V - surgical pathology, gross and microscopic examination
- 88309      Level VI - surgical pathology, gross and microscopic examination
- 88311      Decalcification procedure (List separately in addition to code for surgical pathology examination.)
- 88312      Special stains (List separately in addition to code for surgical pathology examination.); Group I for microorganisms (e.g., Gridley, acid fast, methenamine silver), each
- 88313          Group II, all other (e.g., iron, trichrome), except immunocytochemistry and immunoperoxidase stains, each
- 88314          histochemical staining with frozen section(s)
- 88318      Determinative histochemistry to identify chemical components (e.g., copper, zinc)
- 88319      Determinative histochemistry or cytochemistry to identify enzyme constituents, each
- 88342      Immunocytochemistry (including tissue immunoperoxidase), each antibody
- 88346      Immunofluorescent study, each antibody; direct method
- 88347          indirect method
- 88348      Electron microscopy; diagnostic
- 88349          scanning

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88355 Morphometric analysis; skeletal muscle  
 88356 nerve  
 88358 tumor  
 88362 Nerve-teasing preparations  
 88365 Tissue in situ hybridization, interpretation and report  
 88371 Protein analysis of tissue by Western Blot, with interpretation and report;  
 88372 immunological probe for band identification, each  
 88380 Microdissection (e.g., mechanical, laser capture)  
 88399 Unlisted surgical pathology procedure (I.C.)

**OTHER PROCEDURES**

89050 Cell count, miscellaneous body fluids (e.g., cerebrospinal fluid, joint fluid), except blood;  
 89051 with differential count  
 89060 Crystal identification by light microscopy with or without polarizing lens analysis, any body  
 fluid (except urine)  
 89100 Duodenal intubation and aspiration; single specimen (e.g., simple bile study or afferent loop  
 culture) plus appropriate test procedure (I.C.)  
 89105 collection of multiple fractional specimens with pancreatic or gallbladder stimulation, single  
 or double lumen tube  
 89125 Fat stain, feces, urine, or respiratory secretions  
 89130 Gastric intubation and aspiration, diagnostic, each specimen, for chemical analyses or  
 cytopathology;  
 89132 after stimulation  
 89135 Gastric intubation, aspiration, and fractional collections (e.g., gastric secretory study); one hour  
 89136 two hours  
 89140 two hours including gastric stimulation (e.g., histalog, pentagastrin)  
 89141 three hours, including gastric stimulation  
 89160 Meat fibers, feces  
 89190 Nasal smear for eosinophils  
 89350 Sputum, obtaining specimen, aerosol induced technique (separate procedure)  
 89355 Starch granules, feces  
 89360 Sweat collection by iontophoresis  
 89365 Water load test  
 89399 Unlisted miscellaneous pathology test (I.C.)

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**MEDICINE**

**CARDIOVASCULAR**

**Cardiography**

- 93000      Electrocardiogram, routine ECG with at least 12 leads; with interpretation and report
- 93005      tracing only, without interpretation and report
- 93010      interpretation and report only
- 93012      Telephonic transmission of post-symptom electrocardiogram rhythm strip(s), per 30-day period of time; tracing only (I.C.)
- 93014      physician review with interpretation and report only (I.C.)
- 93015      Cardiovascular stress test using maximal or submaximal treadmill or bicycle exercise, continuous electrocardiographic monitoring, and/or pharmacological stress; with physician supervision, with interpretation and report
- 93018      interpretation and report only
- 93024      Ergonovine provocation test (I.C.)
- 93040      Rhythm ECG, one to three leads; with interpretation and report
- 93041      tracing only without interpretation and report
- 93042      interpretation and report only
- 93224      Electrocardiographic monitoring for 24 hours by continuous original ECG waveform recording and storage, with visual superimposition scanning; includes recording, scanning analysis with report, physician review and interpretation (I.C.)
- 93225      recording (includes hook-up, recording, and disconnection) (I.C.)
- 93226      scanning analysis with report (I.C.)
- 93227      physician review and interpretation (I.C.)
- 93230      Electrocardiographic monitoring for 24 hours by continuous original ECG waveform recording and storage without superimposition scanning utilizing a device capable of producing a full miniaturized printout; includes recording, microprocessor-based analysis with report, physician review and interpretation (I.C.)
- 93231      recording (includes hook-up, recording, and disconnection) (I.C.)
- 93232      microprocessor-based analysis with report (I.C.)
- 93233      physician review and interpretation (I.C.)
- 93235      Electrocardiographic monitoring for 24 hours by continuous computerized monitoring and non-continuous recording, and real-time data analysis utilizing a device capable of producing intermittent full-sized waveform tracings, possibly patient activated; includes monitoring and real-time data analysis with report, physician review and interpretation (I.C.)
- 93236      monitoring and real-time data analysis with report (I.C.)
- 93237      physician review and interpretation (I.C.)
- 93268      Patient demand single or multiple event recording with presymptom memory loop, per 30-day period of time; includes transmission, physician review and interpretation (I.C.)
- 93278      Signal-averaged electrocardiography (SAECG), with or without ECG (I.C.)

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**Other Vascular Studies**

- 93724 Electronic analysis of antitachycardia pacemaker system (includes electrocardiographic recording, programming of device, induction and termination of tachycardia via implanted pacemaker, and interpretation of recordings)
- 93731 Electronic analysis of dual-chamber pacemaker system (includes evaluation of programmable parameters at rest and during activity where applicable, using electrocardiographic recording and interpretation of recordings at rest and during exercise, analysis of event markers and device response); without reprogramming
- 93732 with reprogramming
- 93734 Electronic analysis of single-chamber pacemaker system (includes evaluation of programmable parameters at rest and during activity where applicable, using electrocardiographic recording and interpretation of recordings at rest and during exercise, analysis of event markers and device response); without reprogramming
- 93735 with reprogramming

**Other Procedures**

- 93799 Unlisted cardiovascular service or procedure (I.C.)

**SUPPLEMENTARY**

- G0001 Routine venipuncture for collection of specimen(s) (single home-bound, nursing-facility patient)

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