

## **Pathology: Microbiology**

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This section contains information to assist providers in billing for pathology procedures related to microbiology services.

### **Cultures and Cultures Sensitivity Studies**

(CPT® codes 87040 thru 87158) must be billed separately from sensitivity studies (CPT codes 87181 thru 87190). Sensitivity studies should not be automatically performed or billed after growing a culture. It is generally considered inappropriate to perform a sensitivity study when the culture shows no growth or yields only normal flora.

### **Presumptive**

Presumptive identification of microorganisms is defined as identification by the colony morphology, growth on selective media, gram stains, or up to three tests (eg, catalase, oxidase, indole and urease).

### **Definitive**

Definitive identification of microorganisms is defined as identification to the genus or species level that require additional tests (eg, biochemical panels, slide cultures). If additional studies involve molecular probes, chromatography, or immunologic techniques, these should be separately coded in addition to definitive identification codes CPT codes 87140 thru 87158.

«Table of CPT Codes »

<b>CPT Code</b>	<b>Description</b>	<b>Identification</b>	<b>Specimen Source</b>
87040	Culture, bacterial; blood aerobic with isolation and presumptive identification of isolates (includes anaerobic culture, if appropriate)	Presumptive Identification	Blood
87045	Culture, bacterial; stool, aerobic, with isolation and preliminary examination (eg, KIA, LIA), Salmonella, Shigella species	Selective Media Screen	Stool
87046	Culture, bacterial; stool, aerobic, additional pathogens, isolation and presumptive identification of isolates, each plate	Presumptive Identification	Stool
87070	Culture, bacterial; any other source except urine, blood or stool, aerobic, with isolation and presumptive identification of isolates	Presumptive Identification	Any except urine, blood, stool

## «Table of CPT Codes (continued)»

<b>CPT Code</b>	<b>Description</b>	<b>Identification</b>	<b>Specimen Source</b>
87071	Culture, bacterial; quantitative, aerobic with isolation and presumptive identification of isolates, any source except urine, blood or stool	Presumptive Identification	Any except urine, blood, stool
87073	Culture, bacterial; quantitative, anaerobic with isolation and presumptive identification of isolates, any source except urine, blood or stool	Presumptive Identification	Any except urine, blood, stool
87075	Culture, bacterial; any source, except blood, anaerobic with isolation and presumptive identification of isolates	Presumptive Identification	Any except blood
87076	Culture, bacterial; anaerobic isolate, additional methods required for definitive identification, each isolate	Definitive Identification	Not Specified
87077	Culture, bacterial; aerobic isolate, additional methods required for definitive identification, each isolate	Definitive Identification	Not Specified
87081	Culture, presumptive, pathogenic organisms, screening only	Presumptive Identification	Not Specified
87084	Culture, presumptive, pathogenic organisms, screening only; with colony estimation from density chart	Presumptive Identification	Not Specified
87086	Culture, bacterial; quantitative colony count, urine	None	Urine
87088	Culture, bacterial; with isolation and presumptive identification of each isolate, urine	Presumptive Identification	Urine
87101	Culture fungi (mold or yeast), isolation, with presumptive identification of isolates; skin, hair, or nail	Presumptive Identification	Skin, hair or nails
87102	Culture, fungi (mold or yeast) isolation, with presumptive identification of isolates; other source (except blood)	Presumptive Identification	Other source except blood (and above)

«Table of CPT Codes (continued)»

CPT Code	Description	Identification	Specimen Source
87103	Culture, fungi (mold or yeast) isolation, with presumptive identification of isolates; blood	Presumptive Identification	Blood
87106	Culture, fungi, definitive identification, each organism; yeast	Definitive Identification	Not specified
87107	Culture, fungi, definitive identification, each organism; mold	Definitive Identification	Not Specified
87181	Susceptibility studies, antimicrobial agent; agar dilution method, per agent, (eg, antibiotic gradient strip)	None	Not specified
87184	Susceptibility studies, antimicrobial agent; disk method, per plate (12 or fewer agents)	None	Not specified
87185	Susceptibility studies, antimicrobial agent; enzyme detection (eg, beta lactamase), per enzyme	None	Not specified
87186	Susceptibility studies, antimicrobial agent; microdilution or agar dilution (minimum inhibitory concentration [MIC] or breakpoint), each multi-antimicrobial, per plate	None	Not Specified
87187	Susceptibility studies, antimicrobial agent; microdilution or agar dilution, minimum lethal concentration (MLC), each plate (List separately in addition to code for primary procedure)	None	Not specified
87188	Susceptibility studies, antimicrobial agent; macrobroth dilution method, each agent	None	Not specified
87190	Susceptibility studies, antimicrobial agent; mycobacteria, proportion method, each agent	None	Not specified

### **CPT Code 87205, 87206 or 87210: Documentation Required**

Pathology smear procedure code 87205, 87206 or 87210 will not be separately reimbursed if billed for the same date of service as culture codes (CPT codes 87040 thru 87158), unless specifically ordered separately by the requesting clinician. If the smear code is ordered separately, claims billed for the smear procedure code and a culture code by the same provider for the same recipient and date of service must contain the date of the stain for the primary source smear. A statement included in the *Remarks* field (Box 80)/*Additional Claim Information* field (Box 19) or attached to the claim that states the stain was ordered separately from the culture is also required. Claims without this documentation will be denied.

## **CPT Codes 87076 and 87077: Documentation Required**

Documentation is required when billing CPT codes 87076 (culture, bacterial; anaerobic isolate) and 87077 (Culture, bacterial; aerobic isolate, additional methods required for definitive identification, each isolate). The documentation must justify the reason for the additional identification method or describe the organism identified from the additional culture study. This information must be entered in the *Remarks* field (Box 80)/*Additional Claim Information* field (Box 19) or attached to the claim.

## **Antimicrobial Susceptibility Drug Testing: CPT Code 87190**

CPT code 87190 (susceptibility studies, antimicrobial agent; mycobacteria, proportion method, each agent) is used to bill for antimicrobial susceptibility drug testing on isolates of *Mycobacterium tuberculosis* in patients infected with tuberculosis. Reimbursement is limited to susceptibility drug testing of seven antimicrobial drugs. Claims billed with eight or more drug susceptibility studies must include documentation indicating treatment failure or known multi-drug resistant tuberculosis (MDR-TB).

## **CPT Code 87905**

CPT code 87905 (infectious agent enzymatic activity other than virus [eg, sialidase activity in vaginal fluid]) is not a split-billable service and must not be billed with modifier 26, 99 or TC.

## **HCPCS Codes Q0111 thru Q0113**

HCPCS codes Q0111 thru Q0113 are Medi-Cal benefits and may be billed with modifiers 26 or TC. Providers billing these codes must meet Clinical Laboratory Improvement Amendments (CLIA) requirements.

## **Pathogen(s) Test for Platelets**

HCPCS code P9100 (pathogen(s) test for platelets) is a Medi-Cal benefit. The frequency limit is 12 per day.

## **Microbiology Procedures**

Microbiology CPT codes 87260 thru 87899 define the specific infectious agent and technique used to perform the test. The testing techniques include antigen detection, direct fluorescence microscopy, infectious agent detection and nucleic acid probe.

If the direct probe technique has been previously reimbursed, the amplified probe will be reimbursed at a reduced amount for the same date of service. The “quantification” probe technique will be reimbursed on a “By Report” basis.

## Enzyme Immunoassay Procedure

CPT code 87389 (infectious agent antigen detection by immunoassay technique, qualitative or semiquantitative, multiple-step method; HIV-1 antigen(s), with HIV-1 and HIV-2 antibodies, single result) is split-billable. When billing for both the professional and technical service components of a split-billable procedure, a modifier is neither required nor allowed. When billing for only the professional component, use modifier 26. When billing for only the technical component, use modifier TC.

## HIV Microbiology Procedures

CPT code 87536 (infectious agent detection by nucleic acid [DNA or RNA]; HIV-1, quantification, includes reverse transcription when performed) is used to report the HIV viral load test.

CPT code 87806 (infectious agent antigen detection by immunoassay with direct optical observation; HIV-1 antigen[s], with HIV-1 and HIV-2 antibodies) may be billed with any ICD-10-CM diagnosis code, but is not split-billable, and should not be billed with modifier 26 or TC.

## HPV Testing

CPT codes 87624 (infectious agent detection by nucleic acid [DNA or RNA]; Human Papillomavirus [HPV], high-risk types) and 87625 (...Human Papillomavirus [HPV], types 16 and 18 only, includes type 45, if performed) are reimbursable for recipients 21 years of age and older.

For cervical cancer screening, the U.S. Preventive Services Task Force (USPSTF) recommends screening for cervical cancer every three years with cervical cytology alone in women 21 to 29 years of age. For women 30 to 65 years of age, the USPSTF recommends screening every three years with cervical cytology alone, every five years with high-risk human papillomavirus (hrHPV) testing alone or every five years with hrHPV testing in combination with cytology (co-testing). Any ICD-10-CM diagnosis code may be used. Use of modifier 33 indicates the service was provided in accordance with USPSTF A or B recommendation.

For management of cervical abnormalities and preinvasive cervical lesions, the following table lists the circumstances when HPV testing or co-testing should be performed.

The Recommended Interval column is included as a reference for clinicians.

HPV Testing and Co-Testing Guidelines

«Table of HPV Testing and Co-testing Guidelines»

Testing Ordered	Last Test Result Showed	Age Limitations	Recommended Interval	ICD-10-CM Code
Reflex HPV testing	ASC-US	21 years and older	N/A	R87.610
ASC-US, reflex HPV negative	21 years and older	Co-test in 36 months	R87.610	ASC-US, reflex HPV negative
Cytology NILM but EC/TZ insufficient or absent, HPV positive	30 years and older	Co-test in 12 months	R87.810 R87.616	Cytology NILM but EC/TZ insufficient or absent, HPV positive
Cytology NILM but EC/TZ insufficient or absent, HPV unknown	30 years and older	HPV test. If positive, co-test in 12 months	R87.616	Cytology NILM but EC/TZ insufficient or absent, HPV unknown

**Additional Laboratory Tests**

«Table of CPT Codes Restrictions»

CPT Code	Description	Restrictions
87624	Infectious agent detection by nucleic acid (DNA or RNA); Human papillomavirus (HPV), high-risk types (e.g., 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 68)	High-risk only
87625	Infectious agent detection by nucleic acid (DNA or RNA); Human papillomavirus (HPV), types 16 and 18 only, includes type 45, if performed	Additional ICD-10-CM code required

**Mycoplasma Genitalium**

CPT code 87563 (infectious agent detection by nucleic acid [DNA or RNA]; mycoplasma genitalium, amplified probe technique) must be billed with at least one ICD-10-CM diagnosis code in the following ranges: N34.0 thru N34.3 or N70.01 thru N77.1. This code is not split-billable and cannot be billed with modifier 26, TC or 99.

**H1N1 Testing**

Testing, using real-time RT-PCR assay, is allowed for H1N1 using the following CPT codes:

**«Table of CPT Code Descriptions»**

<b>CPT Code</b>	<b>Description</b>
87501	Infectious agent detection by nucleic acid (DNA or RNA); influenza virus, reverse transcription and amplified probe technique, each type or subtype
87502	Infectious agent detection by nucleic acid (DNA or RNA); influenza virus, for multiple types or sub-types, includes multiplex reverse transcription, when performed, and multiplex amplified probe technique, first 2 types or sub-types
87503	Infectious agent detection by nucleic acid (DNA or RNA); influenza virus, for multiple types or sub-types, includes multiplex reverse transcription, when performed, and multiplex amplified probe technique, each additional influenza virus type or sub-type beyond 2

## **Hepatitis C Genotype Testing**

CPT code 87902 (infectious agent genotype analysis by nucleic acid [DNA or RNA]; hepatitis C virus) is used for hepatitis C genotype testing. Code 87902 must be billed in conjunction with one of the following ICD-10-CM diagnosis codes:

**«Table of ICD-10-CM Code Descriptions»**

<b>ICD-10-CM Code</b>	<b>Description</b>
B17.10	Acute hepatitis C without hepatic coma
B17.11	Acute hepatitis C with hepatic coma
B18.2	Chronic viral hepatitis C
B19.20	Unspecified viral hepatitis C without hepatic coma
B19.21	Unspecified viral hepatitis C with hepatic coma

Claims for code 87902 do not require a "By Report" attachment. Code 87902 is reimbursable once in a lifetime.

## **Human Immunodeficiency Virus (HIV) Drug Resistance Testing**

Genotypic and phenotypic HIV drug resistance testing are Medi-Cal benefits.

Transmission of drug-resistant HIV strains has been well documented and has been associated with suboptimal virologic response to initial antiretroviral therapy. The likelihood that a patient will acquire a drug-resistant virus is related to the prevalence of drug resistance in persons engaging in high-risk behaviors in the community. In the United States and Europe, recent studies suggest the risk that transmitted virus will be resistant to at least one antiretroviral drug is in the range of 6 to 16 percent, with 3 to 5 percent of transmitted viruses exhibiting reduced susceptibility to drugs from more than one class.

Current treatment of HIV infection involves the use of combination antiretroviral drug therapy. The current drug regimens used to treat HIV infection usually consist of multiple drugs. The choice of drug regimen has become complicated by the emergence of resistance to many drugs available to treat HIV infection. HIV drug resistance testing has the potential to significantly improve the likelihood for treatment success of an antiretroviral drug regimen and avoid the expense of employing drug regimens that prove ineffective. HIV drug resistance testing can provide physicians with information that will permit the most effective use of antiretroviral medication and may help avoid the convenience, cost and toxicity of regimens with less chance of providing benefit.

## Indications for Drug Resistance Testing

Current guidelines recommend genotypic HIV testing drug testing in all of the following:

- For persons with HIV infection when they enter into care regardless of whether therapy will be initiated immediately or deferred.
- In the setting of virologic failure while the patient is taking prescribed antiretroviral drugs, or, if not possible, within four weeks after discontinuing therapy.
- For all pregnant women prior to initiation of therapy and for those entering pregnancy with detectable HIV RNA levels while on therapy.
- In antiretroviral naïve patients and in patients with suboptimal virologic responses or virologic failure while on first or second regimens.

The addition of phenotypic testing to genotypic testing is generally preferred for persons with known or suspected complex drug resistance mutation patterns, particularly to protease inhibitors.

## Resistance Testing Not Recommended

HIV drug resistance testing is not recommended in either of the following clinical situations:

- In patients with low HIV RNA levels (<500 copies/ml)
- After antiretroviral drug therapy is discontinued (>4 weeks)

## Billing Limitations

CPT code 87900 (infectious agent drug susceptibility phenotype prediction using regularly updated genotypic bioinformatics) may not be separately reimbursable with CPT codes 87903 and 87904. CPT code 87900 is split-billable. When billing for both the professional and technical service components of a split-billable procedure, a modifier is neither required nor allowed. When billing for only the professional component, use modifier 26. When billing for only the technical component, use modifier TC. Modifier 99 is allowed.

## Billing

**Table of CPT Code Descriptions**

<b>CPT Code</b>	<b>Description</b>
87901	Infectious agent genotype analysis by nucleic acid (DNA or RNA); HIV-1, reverse transcriptase and protease
87903	Infectious agent phenotype analysis by nucleic acid (DNA or RNA) with drug resistance tissue culture analysis, HIV-1; first through 10 drugs tested
87904	Infectious agent phenotype analysis by nucleic acid (DNA or RNA) with drug resistance tissue culture analysis, HIV 1; each additional drug tested (List separately in addition to code for primary procedure)
87906	Infectious agent genotype analysis by nucleic acid (DNA or RNA); HIV-1, other region (eg, integrase, fusion)

## COVID-19 Testing

The following CPT and HCPCS codes have been developed to further streamline the reporting and reimbursement of coronavirus testing offered by hospitals, health systems and laboratories in the United States. Providers may use the appropriate CPT or HCPCS codes outlined below. Testing codes should not be reported concurrently.

CPT code 86413 (severe acute respiratory syndrome coronavirus 2 [SARS-CoV-2] [Coronavirus disease (COVID-19)] antibody, quantitative).

«CPT code 87635 \* (infectious agent detection by nucleic acid [DNA or RNA]; severe acute respiratory syndrome coronavirus 2 [SARS-CoV-2] [Coronavirus disease (COVID-19)], amplified probe technique) has a limit of two per day, any provider, per patient.

CPT codes 86328 \* (immunoassay for infectious agent antibody(ies), qualitative or semiquantitative, single step method [eg, reagent strip]; severe acute respiratory syndrome coronavirus 2 [SARS-CoV-2] [Coronavirus disease (COVID-19)]) and 86769 \* (antibody; severe acute respiratory syndrome coronavirus 2 [SARS-CoV-2] [Coronavirus disease (COVID-19)]) have a frequency limit of two per day, any provider, per patient.» These codes should not be reported concurrently.

«CPT code 87426 \* (infectious agent antigen detection by immunoassay technique, [e.g., enzyme immunoassay (EIA), enzyme-linked immunosorbent assay (ELISA), immunochemiluminometric assay (IMCA)] qualitative or semiquantitative, multiple-step method; severe acute respiratory syndrome coronavirus [e.g., SARS-CoV, SARS-CoV-2 (COVID-19)].)» It has a frequency limit of two per day, any provider, per patient.

«Reimbursement of HCPCS code U0001 \* is limited to the use of the Centers for Disease Control and Prevention (CDC) severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) Real-Time RT-PCR Diagnostic Panel assay by CDC qualified with a limit of two per day, any provider, per patient and is exempt from Assembly Bill 97 10 percent payment reduction.» It is certified under the Clinical Laboratory Improvement Amendments of 1988 to perform high complexity tests. These assays were issued under Emergency Use Authorization by the U.S. Food and Drug Administration. When using code U0001, the provider attests that the laboratory meets these standards. «HCPCS code U0002 \* is intended for billing of non-CDC laboratory tests for SARS-CoV-2 in accordance with the new policy issued by the Food and Drug Administration.» HCPCS code U0002 may be used for tests developed by these additional laboratories when submitting claims to Medi-Cal with a limit of two per day, any provider, per patient.

«HCPCS codes U0003 \* and U0004 \* were developed for the detection of SARS-COV-2 or the diagnosis of the virus that causes COVID-19 making use of high-throughput technologies.» Each have a frequency limit of two per day, any provider, per patient. These codes should not be billed with each other, CPT code 87635 or HCPCS codes U0001 or U0002.

HCPCS codes G2023 and G2024 are intended for the specimen collection for COVID-19 testing and are billable by clinical diagnostic laboratories. They may be billed with any ICD-10-CM diagnosis code but should not be reported together. These codes have a frequency limit of two per day, any provider, per patient for each code.

HCPCS code C9803 (hospital outpatient clinic visit specimen collection for Severe Acute Respiratory Syndrome Coronavirus 2 [SARS-COV-2] [Coronavirus Disease (COVID-19)]) is used specifically for hospital outpatient departments to be reimbursed for specimen collection and symptom assessment for COVID-19 testing.

«CPT codes 86408 \* (neutralizing antibody, severe acute respiratory syndrome coronavirus 2 [SARS-CoV-2] [Coronavirus disease (COVID-19)]; screen) and 86409 \* (neutralizing antibody, severe acute respiratory syndrome coronavirus 2 [SARS-CoV-2] [Coronavirus disease (COVID-19)]; titer) are to be used for COVID-19 testing.» Both codes do not have any age or gender restrictions and have a frequency limit of one per day, any provider, per patient. They may be billed with any ICD-10-CM diagnosis codes.

«CPT code 86413 \* (severe acute respiratory syndrome coronavirus 2 [SARS-CoV-2] [Coronavirus disease (COVID-19)] antibody, quantitative) can be used for COVID-19 antibody testing.»

«CPT code 87428 \* (infectious agent antigen detection by immunoassay technique, [eg, enzyme immunoassay (EIA), enzyme-linked immunosorbent assay (ELISA), fluorescence immunoassay (FIA), immunochemiluminometric assay (IMCA)] qualitative or semiquantitative; severe acute respiratory syndrome coronavirus [eg, SARS-CoV, SARS-CoV-2 (COVID-19)] and influenza virus types A and B) can be used for COVID-19 and influenza virus types A and B testing.» It is limited to once per day, any provider, per patient.

«CPT code 87636 \* (infectious agent detection by nucleic acid (DNA or RNA); severe acute respiratory syndrome coronavirus 2 [SARS-CoV-2] [Coronavirus disease (COVID-19)] and influenza virus types A and B, multiplex amplified probe technique) does not have any gender or age restrictions, has a frequency limit of one of each per day, any provider, per patient, and may be billed with any valid ICD-10-CM diagnosis codes.

CPT code 87637 \* (infectious agent detection by nucleic acid [DNA or RNA]; severe acute respiratory syndrome coronavirus 2 [SARS-CoV-2] [Coronavirus disease (COVID-19)], influenza virus types A and B, and respiratory syncytial virus, multiplex amplified probe technique) does not have any gender or age restrictions, has a frequency limit of one of each per day, any provider, per patient, and may be billed with any valid ICD-10-CM diagnosis codes.

CPT code 87811 \* (infectious agent antigen detection by immunoassay with direct optical [ie, visual] observation; severe acute respiratory syndrome coronavirus 2 [SARS-CoV-2] [Coronavirus disease (COVID-19)]) can be used to report infectious agent antigen detection by immunoassay with direct visual observation.» Code 87811 does not have any gender or age restrictions, has a frequency limit of one of each per day, any provider, per patient, and may be billed with any valid ICD-10-CM diagnosis codes.

## **Legend**

Symbols used in the document above are explained in the following table.

<b>Symbol</b>	<b>Description</b>
<<	This is a change mark symbol. It is used to indicate where on the page the most recent change begins.
>>	This is a change mark symbol. It is used to indicate where on the page the most recent change ends.
<<*	These codes are billable for students in transitional kindergarten through the 12 <sup>th</sup> grade, given that they are Medi-Cal beneficiaries and the testing is provided in schools.>>