Quest Diagnostics®

Specialized Transplant Services
Test Menu

Quest Diagnostics®

Achieve better outcomes across the transplant journey

Our mission is to provide superior end-to-end transplant testing and services for patients, clinicians, and health systems.

Improve experiences and outcomes

- Easy ordering and tracking with electronic medical record (EHR) integration
- Comprehensive onboarding process and ongoing support
- Flexible billing as well as no bills for donors
- Convenient transplant testing packs and FedEx® shipping and tracking for accelerated turnaround times

Ensure compliance and expedite care decisions

- Donor testing results in 24 hours and post-transplant testing in 8–12 hours from receipt of sample
- Specimen-specific test codes aligned to protocols
- Seamless resulting including longitudinal patient results

Enhance quality of care

- Dedicated service team oversees in-lab specimen tracking
- Test menu aligned to protocols and specimen-specific test codes
- Unrivaled access to medical experts to guide test selection and results interpretation

Quest Diagnostics®

From pre-transplant evaluation and pre-operative testing to post-transplant and ongoing monitoring, this reference guide is organized to help you quickly find the tests to meet your specific diagnostic needs.

1 **Pre-transplant evaluation** | Donor and recipient

2 **Pre-operative testing** | Donor and recipient

3 **Post-transplant monitoring** | Recipient

4 **Ongoing assessment, monitoring, and care** | Recipient

Refer to the test directory at **TestDirectory.QuestDiagnostics.com** for additional test information.

1 Pre-transplant evaluation

Specialized Transplant Services–eligible tests

Evaluative tests marked as "Donor" or "Post-transplant" are eligible for Specialized Transplant Services, including expedited turnaround time and "white-glove" service.

Test code	Test name	Clinical use
Donor testing		
10697	Mail to Home Kit, Specialized Transplant Services, Donor	Providers utilizing Quest Patient Service Centers (PSCs) for collection
Infectious disease testing for donor screening		
91986	Donor, Chagas Screen	Screen for *Trypanosoma cruzi* infection in potential donors of human blood, cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible
17385	Donor, *Chlamydia trachomatis/Neisseria gonorrhoeae*, RNA, TMA	Screen for *C trachomatis* and *N gonorrhoeae* RNA in potential donors of human cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible
17388	Donor, Cytomegalovirus Antibody, Total	Screen for cytomegalovirus (CMV) infection in potential donors of viable, leukocyte-rich cells or tissues
90557	Donor, Cytomegalovirus Antibody, Total with Reflex to (IgG, IgM)	Screen with reflex to diagnostic testing for CMV infection in potential donors of viable, leukocyte-rich cells or tissues
19618	Donor, Cytomegalovirus Total with Reflex Non-donor CMV, IgM	
17375	Donor, Hepatitis B Surface Antigen with Reflex to Confirm	Screen and confirmation for acute or chronic hepatitis B virus (HBV) infection in potential donors of human blood, cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible
17378	Donor, Hepatitis B Core Total Antibody	Screen for history of HBV infection in potential donors of human blood, cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible
93305	Donor, Hepatitis C Antibody (Anti-HCV)	Screen for acute or chronic hepatitis C virus (HCV) infection in potential donors of human blood, cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible
19854	Donor, HIV/HBV/HCV NAT Procleix® with Reflexes	Screen for human immunodeficiency virus (HIV)-1, (HIV)-2, HBV, and HCV infection in potential donors of human cells, tissues, or tissue-based products; reactive results may be sufficient to consider donor ineligible
17380	Donor, HIV-1/2 plus O Antibody Screen	Screen for HIV-1 and HIV-2 infection in potential donors of human blood, cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible

1 Pre-transplant evaluation

Test code	Test name	Clinical use
94973	Donor, HIV-1/2 Plus O Antibody Screen with Reflex to Differentiation	Screen for HIV-1 and HIV-2 infection with reflex to confirmation/differentiation. If HIV-1/2 plus O Antibody Screen is reactive or indeterminate, then HIV-1/2 Antibody Differentiation (Supplemental Use Only) will be performed
17379	Donor, HTLV-I/II Antibody Screen	Screen for human T-cell lymphotropic virus (HTLV I and II) infection in potential donors of viable, leukocyte-rich cells and tissues; reactive results may be sufficient to consider a donor ineligible
93309	Donor, Stem Cells Donor Panel Includes cytomegalovirus total antibodies, hepatitis B surface antigen with reflex to confirm, hepatitis B core total antibody, hepatitis C antibody, HIV-1/2 plus O antibody screen, HIV/HBV/HCV NAT Procleix® with reflexes, HTLV-I/II antibody screen, syphilis IgG antibody, and West Nile virus NAT.	Screen for CMV, HBV, HCV, HIV, HTLV-I/II, syphilis, and West Nile virus in potential stem cell donors
17389	Donor, Syphilis IgG Antibody	Screen for acute or chronic *Treponema pallidum* infection in potential donors of human cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible
93308	Donor, Tissue Donor Panel Includes hepatitis B surface antigen with reflex to confirm, hepatitis B core total antibody, hepatitis C antibody, HIV-1/2 plus O antibody screen, HIV/HBV/HCV NAT Procleix® with reflexes, syphilis IgG antibody, and West Nile virus NAT.	Screen for HBV, HCV, HIV, syphilis, and West Nile virus in potential blood donors and donors of human cells, tissues, and cellular and tissue-based products
19412	Donor, West Nile Virus, NAT	Screen for West Nile virus RNA in potential donors of human blood, cells, tissues, or tissue-based products; reactive results may be sufficient to consider donor ineligible

Product ID	Product name	Clinical use
K177	Donor, Specialized Transplant Services, Single Testing Pack	In-office draws
SP121	Donor, Specialized Transplant Services, Multiple Testing Packs	In-office draws to consolidate 2 or more patient draws/day

1 Pre-transplant evaluation

Test code	Test name	Clinical use
Recipient testing		
10696	Mail to Home Kit, Specialized Transplant Services, Post-Transplant	Providers utilizing Quest PSCs for collection
Infectious disease testing (can be ordered both pre- and post-transplant)		
18122	Post-Transplant, Adenovirus DNA, Real-Time PCR, Blood[c]	Detect adenovirus infection
18120	Post-Transplant, Adenovirus DNA, Real-Time PCR, Plasma[c]	
18124	Post-Transplant, Adenovirus DNA, Real-Time PCR, Respiratory[c]	
18118	Post-Transplant, Adenovirus DNA, Real-Time PCR, Serum[c]	
18126	Post-Transplant, Adenovirus DNA, Real-Time PCR, Urine[c]	
18000	Post-Transplant, *Aspergillus* DNA, Qualitative Real-Time PCR, Blood[c]	Detect *Aspergillus* infection
18001	Post-Transplant, *Aspergillus* DNA, Qualitative Real-Time PCR, Respiratory[c]	
18051	Post-Transplant, BK Virus DNA, Real-Time PCR, Blood[c]	Detect BK virus infection
18050	Post-Transplant, BK Virus DNA, Real-Time PCR, Plasma[c]	
18049	Post-Transplant, BK Virus DNA, Real-Time PCR, Serum[c]	
18052	Post-Transplant, BK Virus DNA, Real-Time PCR, Urine[c]	
18143	Post-Transplant, Cytomegalovirus DNA, Real-Time PCR, Blood[c]	Detect CMV infection
18142	Post-Transplant, Cytomegalovirus DNA, Real-Time PCR, Plasma[c]	
18144	Post-Transplant, Cytomegalovirus DNA, Real-Time PCR, Respiratory[c]	
18141	Post-Transplant, Cytomegalovirus DNA, Real-Time PCR, Serum[c]	
18090	Post-Transplant, Epstein-Barr Virus DNA, Real-Time PCR, Blood[c]	Detect active Epstein-Barr virus (EBV) infection
18089	Post-Transplant, Epstein-Barr Virus DNA, Real-Time PCR, Plasma[c]	
18088	Post-Transplant, Epstein-Barr Virus DNA, Real-Time PCR, Serum[c]	
18060	Post-Transplant, Hepatitis B Virus DNA, Real-Time PCR, Plasma[c]	Detect HBV infection
18059	Post-Transplant, Hepatitis B Virus DNA, Real-Time PCR, Serum[c]	
18104	Post-Transplant, Hepatitis C Virus RNA, Real-Time PCR, Plasma[c]	Detect HCV infection
18103	Post-Transplant, Hepatitis C Virus RNA, Real-Time PCR, Serum[c]	

[c]This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the Food and Drug Administration (FDA). This assay has been validated pursuant to the Clinical Laboratory Improvement Amendments (CLIA) regulations and is used for clinical purposes.

1 Pre-transplant evaluation

Test code	Test name	Clinical use
18022	Post-Transplant, Herpesvirus 6 DNA, Real-Time PCR, Blood[c]	Detect human herpesvirus (HHV)-6 infection
18020	Post-Transplant, Herpesvirus 6 DNA, Real-Time PCR, Plasma[c]	
18018	Post-Transplant, Herpesvirus 6 DNA, Real-Time PCR, Serum[c]	
18078	Post-Transplant, Herpesvirus 7 DNA, Real-Time PCR, Blood[c]	Detect human herpesvirus (HHV)-7 infection
18076	Post-Transplant, Herpesvirus 7 DNA, Real-Time PCR, Plasma[c]	
18074	Post-Transplant, Herpesvirus 7 DNA, Real-Time PCR, Serum[c]	
18132	Post-Transplant, Herpesvirus 8 DNA, Real-Time PCR, Blood[c]	Detect human herpesvirus (HHV)-8
18130	Post-Transplant, Herpesvirus 8 DNA, Real-Time PCR, Plasma[c]	
18128	Post-Transplant, Herpesvirus 8 DNA, Real-Time PCR, Serum[c]	
18003	Post-Transplant, HIV-1 RNA, Real-Time PCR, Plasma[c]	Detect HIV infection
18011	Post-Transplant, JC Virus DNA, Real-Time PCR, CSF[c]	Detect John Cunningham (JC) virus infection
18010	Post-Transplant, JC Virus DNA, Real-Time PCR, Plasma[c]	
18009	Post-Transplant, JC Virus DNA, Real-Time PCR, Serum[c]	
18070	Post-Transplant, Parvovirus B19 DNA, Real-Time PCR, Blood[c]	Detect parvovirus B19 infection
18068	Post-Transplant, Parvovirus B19 DNA, Real-Time PCR, Plasma[c]	
18066	Post-Transplant, Parvovirus B19 DNA, Real-Time PCR, Serum[c]	
18005	Post-Transplant, *Pneumocystis jirovecii*, Real-Time PCR, Respiratory[c]	Detect *Pneumocystis jirovecii* infection
18110	Post-Transplant, *Toxoplasma gondii* DNA, Real-Time PCR, CSF[c]	Detect *Toxoplasmosis gondii* infection
18109	Post-Transplant, *Toxoplasma gondii* DNA, Real-Time PCR, Plasma[c]	
18108	Post-Transplant, *Toxoplasma gondii* DNA, Real-Time PCR, Serum[c]	
18146	Post-Transplant, Varicella-Zoster Virus DNA, Real-Time PCR, Blood[c]	Detect varicella-zoster virus (VZV) infection
18148	Post-Transplant, Varicella-Zoster Virus DNA, Real-Time PCR, CSF[c]	
K178	Post-Transplant, Specialized Transplant Services, Single Testing Pack	Chantilly (CHY), in-office draws[d]
K179	Post-Transplant, Specialized Transplant Services, Single Testing Pack	San Juan Capistrano (SJC) in-office draws[e]
SP122	Post-Transplant, Specialized Transplant Services, Multiple Testing Packs	CHY, in-office draws to consolidate 2 or more patient draws/day[d]
SP123	Post-Transplant, Specialized Transplant Services, Multiple Testing Packs	SJC, in-office draws to consolidate 2 or more patient draws/day[e]

[c] This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

[d] North, East, Southeast, Greater Midwest.

[e] Southwest and West.

1 Pre-transplant evaluation

Additional pre-transplant testing

Additional tests useful for evaluation of donors and recipients

Test code	Test name	Clinical use
Donor and recipient testing		
Human leukocyte antigen (HLA) Typing		
92157	HLA A, B, C, Class I Typing, Intermediate Resolution[f]	Match donors and recipients for bone marrow and solid organ transplantation
92076	HLA-A, B, C, DRB1 and DQ High Resolution[g]	
92078	HLA-A, B, C High Resolution	
15484	HLA A, B, C Low Resolution[f]	
92158	HLA-A, B, Intermediate Resolution[h]	
15757	HLA A, B Low Resolution[f]	
92044	HLA A 02:01 Determination[f]	
10951	HLA A Low Resolution[f]	
17397	HLA A Typing, High Resolution[f]	
92746	HLA-B*15:02 Determination with Reflex to HLA-B High Resolution[h]	
10950	HLA B Low Resolution[f]	
17396	HLA B Typing, High Resolution[f]	
17395	HLA C High Resolution[f]	
15463	HLA C Low Resolution[f]	
95730	HLA DPB1 Typing, High Resolution[f]	
19525	HLA DQA1 Low Resolution[f]	
10953	HLA DQB1 Low Resolution[f]	
17394	HLA DQB1 Typing, High Resolution[f]	
92159	HLA-DRB1, DQB1, Intermediate Resolution[h]	
15485	HLA DRB1, DQB1 Low Resolution[f]	
97112	HLA DRB1,3,4,5, DQB1, Low Resolution[f]	
10952	HLA DRB1 Low Resolution[f]	
19526	HLA DRB3,4,5 Low Resolution[f]	
17393	HLA DRB1 Typing, High Resolution[f]	
95732	HLA DRB3,4,5 Typing, High Resolution[f]	
92160	HLA DRB1 Typing, Intermediate Resolution[f]	
92161	HLA DRB3,4,5 Typing, Intermediate Resolution[f]	

[f] This test was developed and its performance characteristics determined by this laboratory. It has not been cleared or approved by the FDA. The FDA has determined that such clearance or approval is not necessary. This test is used for clinical purposes. It should not be regarded as investigational or for research. This laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high complexity clinical laboratory testing.

[g] This test was developed and its performance characteristics determined by Versiti Wisconsin, Inc. It has not been cleared or approved by the FDA. This test is used for clinical purposes. It should not be regarded as investigational or for research. This laboratory is certified under the CLIA as qualified to perform high complexity clinical laboratory testing.

[h] These tests were developed and their performance characteristics were determined by Versiti Wisconsin, Inc. They have not been cleared by the FDA. However, this approval is not required.

1 Pre-transplant evaluation

Test code	Test name	Clinical use
HLA antibody screening and identification		
95731	HLA Antibody Identification, Class I[f]	Match donors and recipients for solid organ transplantation
97111	HLA Antibody Identification, Class II[f]	
95735	HLA Antibody Screen, Class I[f]	
95736	HLA Antibody Screen, Class II[f]	

[f]This test was developed and its performance characteristics determined by this laboratory. It has not been cleared or approved by the FDA. The FDA has determined that such clearance or approval is not necessary. This test is used for clinical purposes. It should not be regarded as investigational or for research. This laboratory is certified under the CLIA-88 as qualified to perform high complexity clinical laboratory testing.

2 Pre-operative testing

Specialized Transplant Services–eligible tests

Pre-operative tests marked as "Donor" or "Post-transplant" are eligible for Specialized Transplant Services, including expedited turnaround time and "white-glove" service.

Test code	Test name	Clinical use
Donor testing		
10697	Mail to Home Kit, Specialized Transplant Services, Donor	Providers utilizing Quest PSCs for collection
39949	Specialized Transplant Services, Donor[a]	Priority handling of donor specimens
Infectious disease testing for donor screening		
91986	Donor, Chagas Screen	Screen for *Trypanosoma cruzi* infection in potential donors of human blood, cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible
17385	Donor, *Chlamydia trachomatis/Neisseria gonorrhoeae*, RNA, TMA	Screen for *C trachomatis* and *N gonorrhoeae* RNA in potential donors of human cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible
17388	Donor, Cytomegalovirus Antibody, Total	Screen for CMV infection in potential donors of viable, leukocyte-rich cells or tissues
90557	Donor, Cytomegalovirus Antibody, Total with Reflex to (IgG, IgM)	Screen with reflex to diagnostic testing for CMV infection in potential donors of viable, leukocyte-rich cells or tissues
19618	Donor, Cytomegalovirus Total with Reflex Non-Donor CMV, IgM	
17375	Donor, Hepatitis B Surface Antigen with Reflex to Confirm	Screen and confirmation for acute or chronic HBV infection in potential donors of human blood, cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible
17378	Donor, Hepatitis B Core Total Antibody	Screen for history of HBV infection in potential donors of human blood, cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible
93305	Donor, Hepatitis C Antibody (Anti-HCV)	Screen for acute or chronic HCV infection in potential donors of human blood, cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible
19854	Donor, HIV/HBV/HCV NAT Procleix® with Reflexes	Screen for human immunodeficiency virus (HIV)-1, (HIV)-2, HBV, and HCV infection in potential donors of human cells, tissues, or tissue-based products; reactive results may be sufficient to consider donor ineligible
17380	Donor, HIV-1/2 Plus O Antibody Screen	Screen for HIV-1 and HIV-2 infection in potential donors of human blood, cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible

[a] Specialized transplant services include collection and shipping kits provided to the customer, direct shipping via FedEx, donor-specific requisitions, and rapid turnaround (24 hours from receipt of sample). Test code 39949 designates special handling for these services; it is a single-use test code that may be applied to 1 or more tests in this section.

2 Pre-operative testing

Test code	Test name	Clinical use
94973	Donor, HIV-1/2 Plus O Antibody Screen with Reflex to Differentiation	Screen for HIV-1 and HIV-2 infection with reflex to confirmation/differentiation. If HIV-1/2 plus O Antibody Screen is Reactive or Indeterminate, then HIV-1/2 Antibody Differentiation (Supplemental Use Only) will be performed
17379	Donor, HTLV-I/II Antibody Screen	Screen for HTLV-I/II infection in potential donors of viable, leukocyte-rich cells and tissues; reactive results may be sufficient to consider a donor ineligible
93307	Donor, IVF Female Panel Includes *Chlamydia trachomatis/Neisseria gonorrhoeae* RNA TMA, hepatitis B surface antigen with reflex to confirm, hepatitis B core total antibody, hepatitis C antibody, HIV-1/2 plus O antibody screen, HIV/HBV/HCV NAT Procleix® with reflexes, syphilis IgG antibody, and West Nile virus NAT.	Screen for *Chlamydia trachomatis*, HBV, HCV, HIV, *Neisseria gonorrhoeae*, syphilis, and West Nile virus in potential egg donors
93306	Donor, IVF Male Panel Includes *Chlamydia trachomatis/Neisseria gonorrhoeae* RNA TMA, cytomegalovirus total antibodies, hepatitis B surface antigen with reflex to confirm, hepatitis B core total antibody, hepatitis C antibody, HIV-1/2 plus O antibody screen, HIV/HBV/HCV NAT Procleix® with reflexes, HTLV-I/II antibody screen, syphilis IgG antibody, and West Nile virus NAT.	Screen for *Chlamydia trachomatis*, CMV, HBV, HCV, HIV, HTLV-I/II, *Neisseria gonorrhoeae*, syphilis, and West Nile virus in potential sperm donors
93309	Donor, Stem Cells Donor Panel Includes cytomegalovirus total antibodies, hepatitis B surface antigen with reflex to confirm, hepatitis B core total antibody, hepatitis C antibody, HIV-1/2 plus O antibody screen, HIV/HBV/HCV NAT Procleix® with reflexes, HTLV-I/II antibody screen, syphilis IgG antibody, and West Nile virus NAT.	Screen for CMV, HBV, HCV, HIV, HTLV-I/II, syphilis, and West Nile virus in potential stem cell donors
17389	Donor, Syphilis IgG Antibody	Screen for acute or chronic *Treponema pallidum* infection in potential donors of human cells, tissues, or tissue-based products; reactive results may be sufficient to consider a donor ineligible
93308	Donor, Tissue Donor Panel Includes hepatitis B surface antigen with reflex to confirm, hepatitis B core total antibody, hepatitis C antibody, HIV-1/2 plus O antibody screen, HIV/HBV/HCV NAT Procleix® with reflexes, syphilis IgG antibody, and West Nile virus NAT.	Screen for HBV, HCV, HIV, syphilis, and West Nile virus in potential blood donors and donors of human cells, tissues, and cellular- and tissue-based products
19412	Donor, West Nile Virus, NAT	Screen for West Nile virus RNA in potential donors of human blood, cells, tissues, or tissue-based products; reactive results may be sufficient to consider donor ineligible

2 Pre-operative testing

Product ID	Product name	Clinical use
K177	Donor, Specialized Transplant Services, Single Testing Pack	In-office draws
SP121	Donor, Specialized Transplant Services, Multiple Testing Packs	In-office draws to consolidate 2 or more patient draws/day
Recipient testing		
10696	Mail to Home Kit, Specialized Transplant Services, Post-Transplant	Providers utilizing Quest PSCs for collection
39950	Specialized Transplant Services, Post-Transplant[b]	Priority handling of recipient specimens

Test code	Test name	Clinical use
Infectious disease testing post-transplant		
18122	Post-Transplant, Adenovirus DNA, Real-Time PCR, Blood[c]	Detect adenovirus infection
18120	Post-Transplant, Adenovirus DNA, Real-Time PCR, Plasma[c]	
18124	Post-Transplant, Adenovirus DNA, Real-Time PCR, Respiratory[c]	
18118	Post-Transplant, Adenovirus DNA, Real-Time PCR, Serum[c]	
18126	Post-Transplant, Adenovirus DNA, Real-Time PCR, Urine[c]	
18000	Post-Transplant, *Aspergillus* DNA, Qualitative Real-Time PCR, Blood[c]	Detect *Aspergillus* infection
18001	Post-Transplant, *Aspergillus* DNA, Qualitative Real-Time PCR, Respiratory[c]	
18051	Post-Transplant, BK Virus DNA, Real-Time PCR, Blood[c]	Detect BK virus infection
18050	Post-Transplant, BK Virus DNA, Real-Time PCR, Plasma[c]	
18049	Post-Transplant, BK Virus DNA, Real-Time PCR, Serum[c]	
18052	Post-Transplant, BK Virus DNA, Real-Time PCR, Urine[c]	
18143	Post-Transplant, Cytomegalovirus DNA, Real-Time PCR, Blood[c]	Detect CMV infection
18142	Post-Transplant, Cytomegalovirus DNA, Real-Time PCR, Plasma[c]	
18144	Post-Transplant, Cytomegalovirus DNA, Real-Time PCR, Respiratory[c]	
18141	Post-Transplant, Cytomegalovirus DNA, Real-Time PCR, Serum[c]	
18090	Post-Transplant, Epstein-Barr Virus DNA, Real-Time PCR, Blood[c]	Detect active EBV infection
18089	Post-Transplant, Epstein-Barr Virus DNA, Real-Time PCR, Plasma[c]	
18088	Post-Transplant, Epstein-Barr Virus DNA, Real-Time PCR, Serum[c]	

[b] Specialized transplant services include collection and shipping kits provided to the customer, direct shipping via FedEx, post-transplant-specific requisitions, and rapid turnaround (8-12 hours from laboratory receipt of sample). Test code 39950 designates special handling for these services; it is a single-use test code that may be applied to 1 or more tests in this section.

[c] This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

2 Pre-operative testing

Test code	Test name	Clinical use
18060	Post-Transplant, Hepatitis B Virus DNA, Real-Time PCR, Plasma[c]	Detect HBV infection
18059	Post-Transplant, Hepatitis B Virus DNA, Real-Time PCR, Serum[c]	
18104	Post-Transplant, Hepatitis C Virus RNA, Real-Time PCR, Plasma[c]	Detect HCV infection
18103	Post-Transplant, Hepatitis C Virus RNA, Real-Time PCR, Serum[c]	
18022	Post-Transplant, Herpesvirus 6 DNA, Real-Time PCR, Blood[c]	Detect HHV-6 infection
18020	Post-Transplant, Herpesvirus 6 DNA, Real-Time PCR, Plasma[c]	
18018	Post-Transplant, Herpesvirus 6 DNA, Real-Time PCR, Serum[c]	
18078	Post-Transplant, Herpesvirus 7 DNA, Real-Time PCR, Blood[c]	Detect HHV-7 infection
18076	Post-Transplant, Herpesvirus 7 DNA, Real-Time PCR, Plasma[c]	
18074	Post-Transplant, Herpesvirus 7 DNA, Real-Time PCR, Serum[c]	
18132	Post-Transplant, Herpesvirus 8 DNA, Real-Time PCR, Blood[c]	Detect HHV-8 infection
18130	Post-Transplant, Herpesvirus 8 DNA, Real-Time PCR, Plasma[c]	
18128	Post-Transplant, Herpesvirus 8 DNA, Real-Time PCR, Serum[c]	
18003	Post-Transplant, HIV-1 RNA, Real-Time PCR, Plasma[c]	Detect HIV infection
18011	Post-Transplant, JC Virus DNA, Real-Time PCR, CSF[c]	Detect JC virus infection
18010	Post-Transplant, JC Virus DNA, Real-Time PCR, Plasma[c]	
18009	Post-Transplant, JC Virus DNA, Real-Time PCR, Serum[c]	
18070	Post-Transplant, Parvovirus B19 DNA, Real-Time PCR, Blood[c]	Detect parvovirus B19 infection
18068	Post-Transplant, Parvovirus B19 DNA, Real-Time PCR, Plasma[c]	
18066	Post-Transplant, Parvovirus B19 DNA, Real-Time PCR, Serum[c]	
18005	Post-Transplant, *Pneumocystis jirovecii*, Real-Time PCR, Respiratory[c]	Detect *Pneumocystis jirovecii* infection
18110	Post-Transplant, *Toxoplasma gondii* DNA, Real-Time PCR, CSF[c]	Detect *T gondii* infection
18109	Post-Transplant, *Toxoplasma gondii* DNA, Real-Time PCR, Plasma[c]	
18108	Post-Transplant, *Toxoplasma gondii* DNA, Real-Time PCR, Serum[c]	
18146	Post-Transplant, Varicella-Zoster Virus DNA, Real-Time PCR, Blood[c]	Detect VZV infection
18148	Post-Transplant, Varicella-Zoster Virus DNA, Real-Time PCR, CSF[c]	

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2 Pre-operative testing

Test code	Test name	Clinical use
K178	Post-Transplant, Specialized Transplant Services, Single Testing Pack	CHY, in-office draws[d]
K179	Post-Transplant, Specialized Transplant Services, Single Testing Pack	SJC, in-office draws[e]
SP122	Post-Transplant, Specialized Transplant Services, Multiple Testing Packs	CHY, in-office draws to consolidate 2 or more patient draws/day[d]
SP123	Post-Transplant, Specialized Transplant Services, Multiple Testing Packs	SJC, in-office draws to consolidate 2 or more patient draws/day[e]

Additional pre-transplant testing

Additional tests useful for evaluation of donors and recipients

Test code	Test name	Clinical use
Donor and recipient testing		
Human leukocyte antigen (HLA) Typing		
92157	HLA A, B, C, Class I Typing, Intermediate Resolution[f]	Match donors and recipients for bone marrow and solid organ transplantation
92076	HLA-A, B, C, DRB1 and DQ High Resolution[g]	
92078	HLA-A, B, C High Resolution	
15484	HLA A, B, C Low Resolution[f]	
92158	HLA-A, B, Intermediate Resolution[h]	
15757	HLA A, B Low Resolution[f]	
92044	HLA A 02:01 Determination[f]	
10951	HLA A Low Resolution[f]	
17397	HLA A Typing, High Resolution[f]	
92746	HLA-B*15:02 Determination with Reflex to HLA-B High Resolution[h]	
10950	HLA B Low Resolution[f]	
17396	HLA B Typing, High Resolution[f]	
17395	HLA C High Resolution[f]	
15463	HLA C Low Resolution[f]	
95730	HLA DPB1 Typing, High Resolution[f]	

[d] North, East, Southeast, Greater Midwest.

[e] Southwest and West.

[f] This test was developed and its performance characteristics determined by this laboratory. It has not been cleared or approved by the FDA. The FDA has determined that such clearance or approval is not necessary. This test is used for clinical purposes. It should not be regarded as investigational or for research. This laboratory is certified under the CLIA-88 as qualified to perform high complexity clinical laboratory testing.

[g] This test was developed and its performance characteristics determined by Versiti Wisconsin, Inc. It has not been cleared or approved by the FDA. This test is used for clinical purposes. It should not be regarded as investigational or for research. This laboratory is certified under the CLIA as qualified to perform high complexity clinical laboratory testing.

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2 Pre-operative testing

Test code	Test name	Clinical use
19525	HLA DQA1 Low Resolution[f]	Match donors and recipients for bone marrow and solid organ transplantation
10953	HLA DQB1 Low Resolution[f]	
17394	HLA DQB1 Typing, High Resolution[f]	
92159	HLA-DRB1, DQB1, Intermediate Resolution[h]	
15485	HLA DRB1, DQB1 Low Resolution[f]	
97112	HLA DRB1,3,4,5, DQB1, Low Resolution[f]	
10952	HLA DRB1 Low Resolution[f]	
19526	HLA DRB3,4,5 Low Resolution[f]	
17393	HLA DRB1 Typing, High Resolution[f]	
95732	HLA DRB3,4,5 Typing, High Resolution[f]	
92160	HLA DRB1 Typing, Intermediate Resolution[f]	
92161	HLA DRB3,4,5 Typing, Intermediate Resolution[f]	
HLA antibody screening and identification		
95731	HLA Antibody Identification, Class I[f]	Match donors and recipients for solid organ transplantation
97111	HLA Antibody Identification, Class II[f]	
95735	HLA Antibody Screen, Class I[f]	
95736	HLA Antibody Screen, Class II[f]	

[f] This test was developed and its performance characteristics determined by this laboratory. It has not been cleared or approved by the US Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. This test is used for clinical purposes. It should not be regarded as investigational or for research. This laboratory is certified under the CLIA-88 as qualified to perform high complexity clinical laboratory testing.

[h] These tests were developed and their performance characteristics were determined by Versiti Wisconsin, Inc. They have not been cleared by the FDA. However, this approval is not required.

3 Post-transplant monitoring

Specialized Transplant Services–eligible tests

Post-operative tests marked as "Post-transplant" are eligible for Specialized Transplant Services, including expedited turnaround time and "white-glove" service.

Test code	Test name	Clinical use
Donor and recipient testing		
Infectious disease testing post-transplant		
18122	Post-Transplant, Adenovirus DNA, Real-Time PCR, Blood[c]	Detect adenovirus infection
18120	Post-Transplant, Adenovirus DNA, Real-Time PCR, Plasma[c]	
18124	Post-Transplant, Adenovirus DNA, Real-Time PCR, Respiratory[c]	
18118	Post-Transplant, Adenovirus DNA, Real-Time PCR, Serum[c]	
18126	Post-Transplant, Adenovirus DNA, Real-Time PCR, Urine[c]	
18000	Post-Transplant, *Aspergillus* DNA, Qualitative Real-Time PCR, Blood[c]	Detect *Aspergillus* infection
18001	Post-Transplant, *Aspergillus* DNA, Qualitative Real-Time PCR, Respiratory[c]	
18051	Post-Transplant, BK Virus DNA, Real-Time PCR, Blood[c]	Detect BK virus infection
18050	Post-Transplant, BK Virus DNA, Real-Time PCR, Plasma[c]	
18049	Post-Transplant, BK Virus DNA, Real-Time PCR, Serum[c]	
18052	Post-Transplant, BK Virus DNA, Real-Time PCR, Urine[c]	
18143	Post-Transplant, Cytomegalovirus DNA, Real-Time PCR, Blood[c]	Detect CMV infection
18142	Post-Transplant, Cytomegalovirus DNA, Real-Time PCR, Plasma[c]	
18144	Post-Transplant, Cytomegalovirus DNA, Real-Time PCR, Respiratory[c]	
18141	Post-Transplant, Cytomegalovirus DNA, Real-Time PCR, Serum[c]	
18090	Post-Transplant, Epstein-Barr Virus DNA, Real-Time PCR, Blood[c]	Detect active EBV infection
18089	Post-Transplant, Epstein-Barr Virus DNA, Real-Time PCR, Plasma[c]	
18088	Post-Transplant, Epstein-Barr Virus DNA, Real-Time PCR, Serum[c]	
18060	Post-Transplant, Hepatitis B Virus DNA, Real-Time PCR, Plasma[c]	Detect HBV infection
18059	Post-Transplant, Hepatitis B Virus DNA, Real-Time PCR, Serum[c]	
18104	Post-Transplant, Hepatitis C Virus RNA, Real-Time PCR, Plasma[c]	Detect HCV infection
18103	Post-Transplant, Hepatitis C Virus RNA, Real-Time PCR, Serum[c]	

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3 Post-transplant monitoring

Test code	Test name	Clinical use
18022	Post-Transplant, Herpesvirus 6 DNA, Real-Time PCR, Blood[c]	Detect HHV-6 infection
18020	Post-Transplant, Herpesvirus 6 DNA, Real-Time PCR, Plasma[c]	
18018	Post-Transplant, Herpesvirus 6 DNA, Real-Time PCR, Serum[c]	
18078	Post-Transplant, Herpesvirus 7 DNA, Real-Time PCR, Blood[c]	Detect HHV-7 infection
18076	Post-Transplant, Herpesvirus 7 DNA, Real-Time PCR, Plasma[c]	
18074	Post-Transplant, Herpesvirus 7 DNA, Real-Time PCR, Serum[c]	
18132	Post-Transplant, Herpesvirus 8 DNA, Real-Time PCR, Blood[c]	Detect HHV-8 infection
18130	Post-Transplant, Herpesvirus 8 DNA, Real-Time PCR, Plasma[c]	
18128	Post-Transplant, Herpesvirus 8 DNA, Real-Time PCR, Serum[c]	
18003	Post-Transplant, HIV-1 RNA, Real-Time PCR, Plasma[c]	Detect HIV infection
18011	Post-Transplant, JC Virus DNA, Real-Time PCR, CSF[c]	Detect JC virus infection
18010	Post-Transplant, JC Virus DNA, Real-Time PCR, Plasma[c]	
18009	Post-Transplant, JC Virus DNA, Real-Time PCR, Serum[c]	
18070	Post-Transplant, Parvovirus B19 DNA, Real-Time PCR, Blood[c]	Detect parvovirus B19 infection
18068	Post-Transplant, Parvovirus B19 DNA, Real-Time PCR, Plasma[c]	
18066	Post-Transplant, Parvovirus B19 DNA, Real-Time PCR, Serum[c]	
18005	Post-Transplant, *Pneumocystis jirovecii*, Real-Time PCR, Respiratory[c]	Detect *Pneumocystis jirovecii* infection
18110	Post-Transplant, *Toxoplasma gondii* DNA, Real-Time PCR, CSF[c]	Detect *T gondii* infection
18109	Post-Transplant, *Toxoplasma gondii* DNA, Real-Time PCR, Plasma[c]	
18108	Post-Transplant, *Toxoplasma gondii* DNA, Real-Time PCR, Serum[c]	
18146	Post-Transplant, Varicella-Zoster Virus DNA, Real-Time PCR, Blood[c]	Detect VZV infection
18148	Post-Transplant, Varicella-Zoster Virus DNA, Real-Time PCR, CSF[c]	

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3 Post-transplant monitoring

Test code	Test name	Clinical use
Therapeutic drug monitoring		
Immunosuppressive therapy		
10720	Cyclosporine A Panel (Trough, 1 Hour, 2 Hour Post)	Monitor immunosuppressive therapy to optimize dosage, avoid toxicity, and help assure adherence to a treatment regimen
10719	Cyclosporine A Peak (2 Hour), Blood	
8812	Cyclosporine A, Trough, Blood	
15220	Cyclosporine A Trough, LC/MS/MS, Blood[c]	
18883	Everolimus, Blood[c]	
10662	Mycophenolic Acid, LC/MS/MS[c] Includes mycophenolic acid (MPA) and MPA glucuronide.	
36712	Sirolimus, LC/MS/MS[c]	
70007	Tacrolimus, Highly Sensitive, LC/MS/MS[c]	
91745	Thiopurine Metabolites[c]	
Antifungal therapy		
94092	Itraconazole[c]	Monitor drug levels when unexpected toxicity is encountered; optimize dosage when drug interactions are suspected
94010	Posaconazole[c]	
94096	Voriconazole[c]	
94692	Voriconazole, CSF[c]	

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4 Ongoing assessment, monitoring, and care

Test code	Test name	Clinical use
Therapeutic drug monitoring		
Immunosuppressive therapy		
10720	Cyclosporine A Panel (Trough, 1 Hour, 2 Hour Post)	Monitor immunosuppressive therapy to optimize dosage, avoid toxicity, and help assure adherence to a treatment regimen
10719	Cyclosporine A Peak (2 Hour), Blood	
8812	Cyclosporine A, Trough, Blood	
15220	Cyclosporine A Trough, LC/MS/MS, Blood[c]	
18883	Everolimus, Blood[c]	
10662	Mycophenolic Acid, LC/MS/MS[c] Includes mycophenolic acid (MPA) and MPA glucuronide.	
36712	Sirolimus, LC/MS/MS[c]	
70007	Tacrolimus, Highly Sensitive, LC/MS/MS[c]	
91745	Thiopurine Metabolites[c]	
Antifungal therapy		
94092	Itraconazole[c]	Monitor drug levels when unexpected toxicity is encountered; optimize dosage when drug interactions are suspected
94010	Posaconazole[c]	
94096	Voriconazole[c]	
94692	Voriconazole, CSF[c]	
Recipient testing: Ongoing assessment, monitoring, and care		
Infectious disease testing		
403	Cytomegalovirus Antibody (IgG)	Detect past or current CMV infection; assess susceptibility to reactivation
13947	Cytomegalovirus (CMV) Genotype (UL97/UL54/UL56)	The CMV genotyping test should be considered for patients with CMV infections that are refractory to treatment
13948	Cytomegalovirus (CMV) Genotype (UL97/UL54)	
13949	Cytomegalovirus (CMV) Genotype (UL56)	
8564	Epstein-Barr Virus Nuclear Antigen (EBNA) Antibody (IgG)	Assess risk of post-transplant lymphoproliferative disorder in transplant recipient
8474	Epstein-Barr Virus Viral Capsid Antigen (VCA) Antibody (IgG)	
8426	Epstein-Barr Virus Viral Capsid Antigen (VCA) Antibody (IgM)	
6421	Epstein-Barr Virus Antibody Panel Includes EBV capsid IgG and IgM antibodies, and EBNA IgG antibody.	
91838	Epstein-Barr Virus Antibody Panel Comprehensive Includes EBV early antigen D IgG, EBV capsid IgG and IgM, and EBNA IgG antibody.	Detect early EBV infection; assess risk of post-transplant lymphoproliferative disorder in transplant recipient
15447	Epstein-Barr Virus Early Antigen D Antibody (IgG)	
501	Hepatitis B Core Antibody, Total	Detect current or prior HBV infection
37676	Hepatitis B Core Antibody, Total with Reflex to IgM	
8475	Hepatitis B Surface Antibody Immunity, Quantitative	Determine HBV immune status

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4 Ongoing assessment, monitoring, and care

Test code	Test name	Clinical use
498	Hepatitis B Surface Antigen with Reflex Confirmation	Detect acute or chronic HBV infection
94345	Hepatitis C Antibody with Reflex to HCV RNA, PCR with Reflex to Genotype, LiPA	Detect acute or chronic HCV infection
8472	Hepatitis C Antibody with Reflex to HCV RNA, Quantitative Real-Time PCR	
4990	Hepatitis D Virus (HDV) Antibody, Total[c]	Detect acute or chronic HDV infection in patients with HBV infection
34469	Hepatitis D Virus RNA, Qualitative Real-Time PCR[c]	
6447	Herpes Simplex Virus 1 and 2 (IgG), Type-Specific Antibodies	Detect herpes simplex virus type 1 and 2 infection
37959(X)	Herpesvirus 8 IgG Antibody, IFA[c]	Detect past or current HHV 8 infection
91431	HIV-1/2 Antigen and Antibodies, Fourth Generation, with Reflexes Includes HIV-1/2 antigen and antibody with reflex to HIV-1/2 antibody differentiation; if differentiation test is indeterminant or negative, reflex to HIV-1 RNA.	Detect HIV-1 and HIV-2 infection
36970	QuantiFERON®-TB Gold Plus, 1 Tube	Detect *Mycobacterium tuberculosis*-complex infection (tuberculosis (TB) disease or latent TB infection)
36971	QuantiFERON®-TB Gold Plus, 4 Tubes, Draw Site Incubated	
37737	T-SPOT®.*TB*	
8636	*Toxoplasma* Antibodies (IgG, IgM)	Detect past or current *T gondii* infection, especially in heart transplant donors and recipients
4439	Varicella-Zoster Virus Antibody (IgG)	Detect past or current VZV infection; assess susceptibility to reactivation
30509	VDRL, Serum	Detect nontreponemal antibodies associated with *T pallidum* infection and assess treatment response
4112	FTA-ABS	Detect *T pallidum* infection
653	*Treponema pallidum* Antibody, Particle Agglutination	
Recipient testing: transplant assessment and early follow-up		
4944	Beta-2-Microglobulin, Random Urine	Evaluate transplant viability and anticipate rejection
38994	Beta-2-Microglobulin, Random Urine with Creatinine	
852	Beta-2-Microglobulin, Serum	
14619	FISH, X/Y, Post Opposite Sex Bone Marrow Transplant[c]	Monitor progression of bone marrow cell engraftment when bone marrow is from a donor of the opposite sex
15435(X)	Immune Cell Function	Monitor cell-mediated immune response to optimize immunosuppressant therapy
34298	Interleukin-2 Receptor Alpha Chain (IL-2Ra/CD25), Soluble[i]	Assess possibility of acute transplant rejection

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[i] This test was performed using a kit that has not been cleared or approved by the FDA. The analytical performance characteristics of this test have been determined by Quest Diagnostics. This test should not be used for diagnosis without confirmation by other medically established means.

4 Ongoing assessment, monitoring, and care

Test code	Test name	Clinical use
34473	Interleukin-6 (IL-6), Serum[i]	Assess possibility of transplant-related complications after hematopoietic stem cell transplantation (SCT)
93917	Neopterin, Serum[j]	Monitor cell-mediated immunity
Recipient testing: post-transplant		
Infectious disease testing		
90376	*Aspergillus* Antigen, EIA, BAL	Detect *Aspergillus* infection
14950	*Aspergillus* Antigen, EIA, Serum	
34118(X)	Bacterial Identification, Aerobic	Identify aerobic bacteria causing infection
14673(X)	Bacterial Identification and Susceptibility, Aerobic	Identify aerobic bacteria causing infection and guide antibiotic therapy
17221	Bacterial 16s rDNA Sequencing[c]	Supplement conventional techniques for identification of atypical or difficult-to-identify bacterial pathogens
19963	*Coccidioides* Antibodies (IgG, IgM), Immunodiffusion	Detect past or current *Coccidioides* infection
40299	*Coccidioides* Antibodies (IgG, IgM), Immunodiffusion with Reflex to Complement Fixation	
90799	*Coccidioides* Antibody (IgM), Immunodiffusion	
906	*Coccidioides* Antibody, Complement Fixation, Serum[c]	
90858	*Coccidioides* Serology Panel, Serum[c] Includes CF titer, IgG ID (F antigen), and IgM ID (TP antigen).	
11196	Cryptococcal Antigen, Latex Screen with Reflex to Titer	Detect current cryptococcal infection and monitor therapy
30429	*Cryptococcus* Antibody	Detect past or current cryptococcal infection
30430	*Cryptococcus* Antibody, IFA, CSF[c]	
4606	Culture, Fungus, Blood Identification performed at additional charge and is associated with an additional CPT code.	Detect and identify systemic or localized fungal infection
37960(X)	Culture, Fungus, Miscellaneous Source Includes identification of predominant organism. Each additional identification, and reflex to DNA probe assays for dimorphic molds, performed at additional charge.	Identify organism causing fungal infection
16283	Fungitell® (1-3)-β-D-Glucan	Detect invasive fungal infection (does not detect some fungi that produce very low levels of (1-3)-β-D-glucan)
36327	Fungitell® (1-3)-β-D-Glucan Assay, Endpoint	
34469	Hepatitis D Virus RNA, Qualitative Real-Time PCR[c]	Detect HDV infection in patients with HBV infection

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[i] This test was performed using a kit that has not been cleared or approved by the FDA. The analytical performance characteristics of this test have been determined by Quest Diagnostics. This test should not be used for diagnosis without confirmation by other medically established means.

[j] This test was performed using a kit that has not been cleared or approved by the FDA. The analytical performance characteristics of this test have been determined by Laboratory Corporation of America (LabCorp). This test should not be used for diagnosis without confirmation by other medically established means.

4 Ongoing assessment, monitoring, and care

Test code	Test name	Clinical use
37889	Hepatitis D Virus RNA, Quantitative Real-Time PCR[c]	Detect HDV infection in patients with HBV infection and monitor therapy
34257	Herpes Simplex Virus, Type 1 and 2 DNA, Qualitative Real-Time PCR[c]	Detect HSV infection
19502	Herpes Simplex Virus, Type 1 and 2 DNA, Quantitative Real-Time PCR[c]	Detect HDV infection and monitor therapy
90249	*Histoplasma capsulatum* DNA, Real-Time PCR[c]	Identify *H capsulatum* from culture isolate
91212	*Histoplasma galactomannan* Antigen, Urine[b]	Detect *H galactomannan* infection
16086	Influenza A and B RNA, Qualitative Real-Time PCR[c]	Detect influenza A or B infection
15062(X)	*Legionella* DNA, Qualitative Real-Time PCR[c]	Detect infection with *L pneumophila* or *Legionella* species
871(X)	*Mycoplasma hominis/Ureaplasma* Culture	Detect *Mycoplasma/Ureaplasma* infection
15498(X)	*Mycoplasma pneumoniae* DNA, Qualitative Real-Time PCR[c]	Detect *Mycoplasma pneumoniae* infection
91228	Parainfluenza Virus (Types 1 to 4) RNA, Qualitative Real-Time PCR[c]	Detect parainfluenza virus 1, 2, 3, or 4
16047	Respiratory Syncytial Virus (RSV) RNA, Qualitative Real-Time PCR[c]	Detect RSV infection
37444	Respiratory Pathogen Panel Includes nucleic acid detection from adenovirus, coronavirus (229E, OC43, NL63, and HKU1), *Chlamydophila pneumoniae*, human bocavirus, human metapneumovirus, human respiratory syncytial alpha and beta viruses, human parainfluenza viruses (1, 2, 3, and 4), influenza A (and subtype H1 and H3) virus, influenza B virus, *Mycoplasma pneumoniae*, and rhinovirus/enterovirus.	Differential diagnosis of respiratory infections caused by adenovirus, bocavirus, *Chlamydophila pneumoniae*, coronavirus, influenza virus A and B, metapneumovirus, parainfluenza virus (types 1, 2, 3, and 4), syncytial alpha and beta viruses, *Mycoplasma pneumoniae*, or rhinovirus/enterovirus

[b] Specialized transplant services include collection and shipping kits provided to the customer, direct shipping via FedEx, post-transplant-specific requisitions, and rapid turnaround (8-12 hours from laboratory receipt of sample). Test code 39950 designates special handling for these services; it is a single-use test code that may be applied to 1 or more tests in this section.

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For additional test information visit
TestDirectory.QuestDiagnostics.com

Reflex tests are performed at an additional charge and are associated with an additional CPT code.

Panel components may be ordered separately.

Test codes may vary by location. Please contact your local laboratory for more information.

Multiple test codes may be used for a test. Please refer to your local business unit or the online Test Directory (TestDirectory.QuestDiagnostics.com).

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