

# Molecular Diagnostic Service Catalogue 2022

*Your Most Trusted Health Partner for Life*

## Diagnostic Services We Offer:

- Immunosuppression Panels
- Testing for Bloodborne Infectious Diseases
- Testing for Tuberculosis (TB)
- Mycology Testing
- PCR Identification of Rare Bacteria
- Sexually Transmitted Diseases Panels
- Women Health Screenings
- Gastrointestinal Panels
- Respiratory Panels
- Meningitis/ Encephalitis Panel
- Sepsis Panel
- Therapeutic Drug Monitoring Panel
- Food Intolerance Panel

## NEOGENIX LABORATOIRE DIRECTORY OF SERVICES

### INTRODUCTION

- a. The quality of laboratory results is affected very much by the proper collection, handling and transport of specimens. The following should be adhered to:
- b. Use appropriate specimen containers / culture media to ensure optimal recovery of microorganisms.
- c. Specimens must be accompanied by a request form.
- d. Specimen request forms should have details of patient's recent antimicrobial therapy and brief clinical history.
- e. Specimen must be rejected according to the Appendix 1 (Criteria for rejection of specimens) and inform the hospitals' Laboratory Manager / Assistant Laboratory Manager / doctors / person in charge for sample retake.

### OPERATION HOURS

The Microbiology Laboratory receives specimens during the following hours:  
Monday – Sunday : 08.45 am – 05.45 pm

### TELEPHONE NUMBERS FOR INQUIRIES:

Office 03-7621 2154

#### Sales Director

Mr. Vin Loh Sheng Wei

#### Telephone No.

016-4128947

#### Marketing Executive

Mr. Mohd Arif Irfan Bin Mat Zaini

#### Telephone No.

011-10928901

#### Molecular Sales & Marketing Executive

Mr. Daniel Chung Yiaw En

#### Telephone No.

010-9552338

#### Medical Laboratory Sales Executive

Ms. Adeela Farzaana Bt Kamal Baharin

#### Telephone No.

010-5521303

#### Medical Laboratory Sales Executive

Ms. Janice Poong Zui Xuan

#### Telephone No.

012-9895479

**For urgent after office hour specimens, Sales director or Molecular Sales & Marketing Executive are contactable by the telephone number stated above.**

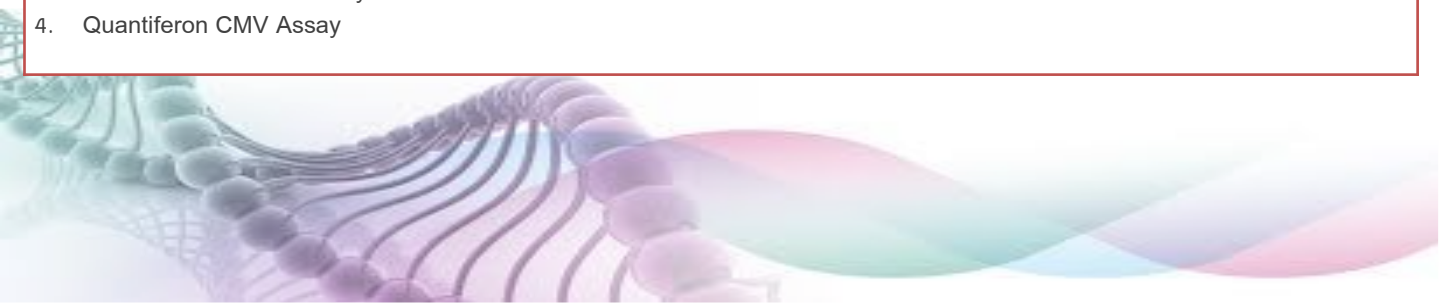
Notes:

Laboratory turnaround time: from the date sample is received at Neogenix Laboratoire Sdn Bhd (1191967-W) to date of release of results



List of diagnostic tests we offer:

Tests	Specimen Requirements	Lab Turnaround Time (working day)
<b>Immunosuppression Panels</b>		
<b>BKV and CMV Combo Viral Load</b> Viral load testing for BK virus (BKV) and Cytomegalovirus (CMV)	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 2 ml EDTA plasma</li> </ul>	3 days
<b>CMV Viral Load</b>	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 2 ml EDTA plasma</li> <li>• <b>3 to 5 ml Urine (new sample type)</b></li> </ul>	3 days
<b>BKV Viral Load</b>	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 2 ml EDTA plasma</li> <li>• 3 to 5 ml urine</li> </ul>	3 days
<b>Epstein-Barr Virus (EBV) Viral Load</b>	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 2 ml EDTA plasma</li> </ul>	3 days
<b>Adenovirus Viral Load</b>	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 2 ml EDTA plasma</li> <li>• <b>3 to 5 ml Urine (new sample type)</b></li> </ul>	3 days
<b>Quantiferon Monitor Assay</b> <ul style="list-style-type: none"> <li>➤ Assesses cell-mediated immune response</li> <li>➤ Provides non-pathogen specific immune monitoring</li> <li>➤ Complements pathogen specific monitoring</li> <li>➤ Aids in clinical management of solid organ transplant patients</li> </ul>	<ul style="list-style-type: none"> <li>• 3 ml heparinized blood</li> </ul> <p><b>*Do not refrigerate/freeze sample</b> <b>* Sample not more than 12 hours</b></p>	5 days
<b>Quantiferon CMV Assay</b> <ul style="list-style-type: none"> <li>➤ Predicting the risk of new and recurrent CMV</li> <li>➤ Guiding therapeutic decision-making</li> </ul>	<ul style="list-style-type: none"> <li>• 2x3 ml heparinized blood</li> </ul> <p><b>*Do not refrigerate/freeze sample</b> <b>* Sample not more than 12 hours</b></p>	5 days
<b>Transplant Package 1</b> <ol style="list-style-type: none"> <li>1. BKV Viral Load</li> <li>2. CMV Viral Load</li> <li>3. Quantiferon Monitor Assay</li> </ol>	<ol style="list-style-type: none"> <li>i. 2x3 ml EDTA blood, &amp;</li> <li>ii. 3 ml heparinized blood</li> </ol>	5 days
<b>Transplant Package 2</b> <ol style="list-style-type: none"> <li>1. BKV Viral Load</li> <li>2. CMV Viral Load</li> <li>3. Quantiferon CMV Assay</li> </ol>	<ol style="list-style-type: none"> <li>i. 2x3 ml EDTA blood, &amp;</li> <li>ii. 2x3 ml heparinized blood</li> </ol>	5 days
<b>Transplant Package 3</b> <ol style="list-style-type: none"> <li>1. BKV Viral Load</li> <li>2. CMV Viral Load</li> <li>3. Quantiferon Monitor Assay</li> <li>4. Quantiferon CMV Assay</li> </ol>	<ol style="list-style-type: none"> <li>i. 2x3 ml EDTA blood, &amp;</li> <li>ii. 3x3 ml heparinized blood</li> </ol>	5 days



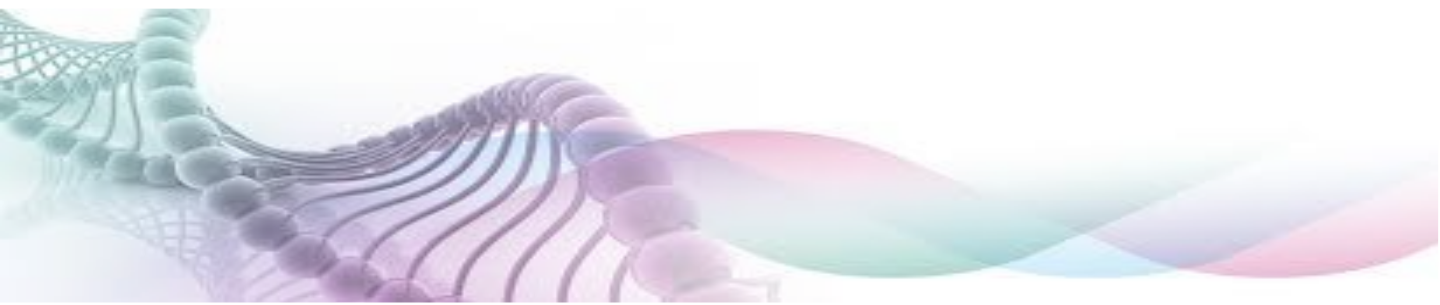
List of new diagnostic tests we offer:

Tests	Specimen Requirements	Lab Turnaround Time (working day)
<b>Human Herpesvirus 6 (HHV6) Viral Load</b>	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 2 ml EDTA plasma</li> <li>• 0.5 ml cerebrospinal fluid (CSF)</li> </ul>	3 days
<b>Herpes Simplex Virus (HSV-1/2) Viral Load</b>	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 2 ml EDTA plasma</li> <li>• 3 to 5 ml Urine</li> <li>• 0.5 ml cerebrospinal fluid (CSF)</li> </ul>	3 days
<b>Viral Package I (ACEH)</b> 1. Adenovirus Viral Load 2. Cytomegalovirus Viral Load 3. Epstein-Barr Virus Viral Load 4. Human Herpesvirus 6 Viral Load	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 2 ml EDTA plasma</li> </ul>	3 days
<b>Viral Package II (AEC)</b> 1. Adenovirus Viral Load 2. Cytomegalovirus Viral Load 3. Epstein-Barr Virus Viral Load	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 2 ml EDTA plasma</li> </ul>	3 days



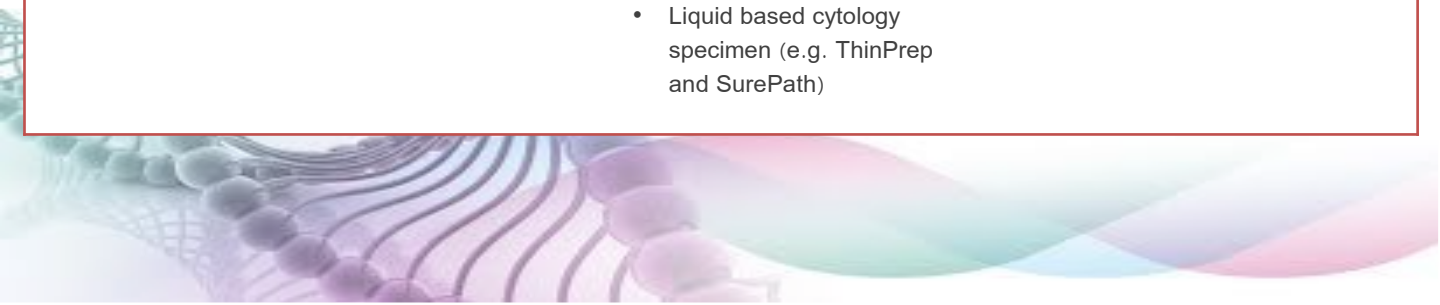
List of diagnostic tests we offer:

Tests	Specimen Requirements	Lab Turnaround Time (working day)
<b>Testing for Bloodborne Infectious Diseases</b>		
<b>Human Immunodeficiency Virus (HIV) Viral Load</b>	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 3 ml EDTA plasma</li> </ul>	5 days
<b>CD4 Count and Haemoglobin Concentration Assay</b> <ul style="list-style-type: none"> <li>➤ Direct enumeration of CD4 absolute count and percentage</li> <li>➤ Used in evaluation of immune status of individual diagnosed with, or suspected of developing immune deficiencies (eg: HIV)</li> </ul>	<ul style="list-style-type: none"> <li>• 3 ml EDTA blood</li> </ul>	2 days
<b>Hepatitis C Virus (HCV) Viral Load</b>	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 3 ml EDTA plasma</li> </ul>	5 days
<b>Hepatitis B Virus (HBV) Viral Load</b>	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 2 ml EDTA plasma</li> </ul>	4 days
<b>Testing for Tuberculosis (TB)</b>		
<b><i>Mycobacterium tuberculosis</i> (TB PCR)</b> <ul style="list-style-type: none"> <li>➤ Detection of <i>Mycobacterium tuberculosis</i> (MTB) and non-tuberculosis mycobacteria (NTM) from symptomatic individual</li> </ul>	<ul style="list-style-type: none"> <li>• 5 ml sputum/induced sputum</li> <li>• 5 ml broncho-alveolar lavage (BAL)</li> <li>• 5 ml tracheal wash</li> <li>• 3-5 ml blood in heparin tube</li> <li>• 10 ml urine</li> <li>• 0.5-1 ml lymph node aspirate</li> <li>• 1-2 ml cerebrospinal fluid (CSF)</li> <li>• 0.5-1 ml bone marrow</li> <li>• 5 ml pus from abscess</li> <li>• 5 ml synovial fluid (from joint)</li> <li>• 5 ml pleural fluid</li> <li>• Min 2 cm fresh tissue/ biopsy (synovial biopsy, endometrial biopsy, tissue biopsy/scrapings)</li> </ul>	3 days
<b>T-spot TB</b> <ul style="list-style-type: none"> <li>➤ Indirect test for <i>M. tuberculosis</i> infection in symptomatic (active TB) and asymptomatic (latent TB) individual</li> </ul>	<ul style="list-style-type: none"> <li>• Adults and children 10 years old and over: 6 ml heparinized blood</li> <li>• Children 2-9 years old: one 4 ml heparinized blood</li> <li>• Children below 2 years old: 2 ml heparinized blood</li> </ul> <p>*Do not refrigerate/freeze sample * Sample not more than 30 hours</p>	1 day  *Remarks Sample only accepted from Monday-Friday
<b>Quantiferon TB Gold Plus</b>	<ul style="list-style-type: none"> <li>• 6 ml heparinized blood</li> </ul>	3 days



List of diagnostic tests we offer:

Tests	Specimen Requirements	Lab Turnaround Time (working day)
<b>Mycology Testing</b>		
<b><i>Aspergillus</i> Galactomannan Assay</b> ➤ Quantitative detection of <i>Aspergillus</i> Galactomannan antigen	<ul style="list-style-type: none"> <li>• 3 ml whole blood</li> <li>• 600 µl serum</li> <li>• 1 ml BAL</li> </ul>	2 days
<b>Molecular identification of fungi (internal transcribed spacer region)</b>	<ul style="list-style-type: none"> <li>• Pure culture of fungi on appropriate agar</li> </ul>	10 days
<b>PCR Identification of Rare Bacteria</b>		
<b>Molecular identification of bacteria (16S rRNA or 50S rRNA)</b>	<ul style="list-style-type: none"> <li>• Pure culture of bacteria on appropriate agar</li> </ul>	10 days
<b>Sexually Transmitted Diseases Panels</b>		
<b>Sexually Transmitted Infections Panel- Basic Screening Panel (STI-2)</b> ➤ Detection of 2 pathogens: <ul style="list-style-type: none"> <li>▪ <i>Chlamydia trachomatis</i></li> <li>▪ <i>Neisseria gonorrhoeae</i></li> </ul>	<ul style="list-style-type: none"> <li>• Genital swab (urethral, vaginal, rectal and cervical)</li> <li>• 5 ml urine</li> <li>• Liquid based cytology specimen (e.g. ThinPrep and SurePath)</li> </ul>	3 days
<b>Sexually Transmitted Infections Panel- Essential Screening Panel (STI-7)</b> ➤ Detection of 7 pathogens: <ul style="list-style-type: none"> <li>▪ <i>Chlamydia trachomatis</i></li> <li>▪ <i>Neisseria gonorrhoeae</i></li> <li>▪ <i>Trichomonas vaginalis</i></li> <li>▪ <i>Mycoplasma hominis</i></li> <li>▪ <i>Mycoplasma genitalium</i></li> <li>▪ <i>Ureaplasma urealyticum</i></li> <li>▪ <i>Ureaplasma parvum</i></li> </ul>	<ul style="list-style-type: none"> <li>• Genital swab (urethral, vaginal, rectal and cervical)</li> <li>• 5 ml urine</li> <li>• Liquid based cytology specimen (e.g. ThinPrep and SurePath)</li> </ul>	3 days
<b>Sexually Transmitted Infections Panel- Genital Ulcer Screening Panel</b> ➤ Detection of 7 pathogens: <ul style="list-style-type: none"> <li>▪ Herpes simplex virus 1 (HSV1)</li> <li>▪ Herpes simplex virus 2 (HSV2)</li> <li>▪ Varicella-zoster virus</li> <li>▪ <i>Haemophilus ducreyi</i></li> <li>▪ <i>Treponema pallidum</i></li> <li>▪ <i>Lymphogranuloma venereum</i></li> <li>▪ Cytomegalovirus</li> </ul>	<ul style="list-style-type: none"> <li>• Genital swab (urethral, vaginal, rectal and cervical)</li> <li>• 5 ml urine</li> <li>• Liquid based cytology specimen (e.g. ThinPrep and SurePath)</li> </ul>	3 days
<b>Sexually Transmitted Infections Panel - Combo Panel (STI-14)</b> ➤ STI-7 and Genital ulcer panel	<ul style="list-style-type: none"> <li>• Genital swab (urethral, vaginal, rectal and cervical)</li> <li>• 5 ml urine</li> <li>• Liquid based cytology specimen (e.g. ThinPrep and SurePath)</li> </ul>	3 days



List of diagnostic tests we offer:

Tests	Specimen Requirements	Lab Turnaround Time (working day)																																
<b>Sexually Transmitted Infections Panel - Premium Panel</b> 1. STI 14 2. HPV 19 high risk genotypes: : 16, 18, 26, 31, 33, 35, 39, 45, 51, 52, 53, 56, 58, 59, 66, 68, 69, 73, 82 3. HPV 9 low risk genotypes: 6, 11, 40, 42, 43, 44, 54, 61, 70	<ul style="list-style-type: none"> <li>Swab specimen (urethral, vaginal and cervical)</li> <li>Liquid based cytology specimen (e.g. ThinPrep and SurePath)</li> </ul>	3 days																																
<b>Women Health Screening</b>																																		
<b>Human Papillomavirus (HPV) DNA Genotyping</b> 1. 19 high risk genotypes: : 16, 18, 26, 31, 33, 35, 39, 45, 51, 52, 53, 56, 58, 59, 66, 68, 69, 73, 82 2. 9 low risk genotypes: 6, 11, 40, 42, 43, 44, 54, 61, 70	<ul style="list-style-type: none"> <li>Cervical swab/brush specimen</li> <li>Liquid based cytology specimen (e.g. ThinPrep and SurePath)</li> </ul>	3 days																																
<b>Gastrointestinal Panels</b>																																		
<b>Rapid PCR for Gastrointestinal Pathogen Panel (RPGPP)</b> ➤ 22 pathogens	<ul style="list-style-type: none"> <li>Stool sample</li> </ul>	6 hours																																
<table border="1"> <thead> <tr> <th>Bacteria</th> <th>Diarrheagenic <i>E. coli</i>/<i>Shigella</i></th> <th>Viruses</th> <th>Parasites</th> </tr> </thead> <tbody> <tr> <td><i>Campylobacter (jejuni, coli &amp; upsaliensis)</i></td> <td><i>E. coli</i> O157</td> <td>Adenovirus F 40/41</td> <td><i>Cryptosporidium</i></td> </tr> <tr> <td><i>Clostridium difficile</i> (Toxin A/B)</td> <td>Enteroaggregative <i>E. coli</i> (EAEC)</td> <td>Astrovirus</td> <td><i>Cyclospora cayetanensis</i></td> </tr> <tr> <td><i>Plesiomonas shigelloides</i></td> <td>Enteropathogenic <i>E. coli</i> (EPEC)</td> <td>Norovirus GI/GII</td> <td><i>Entamoeba histolytica</i></td> </tr> <tr> <td><i>Salmonella</i></td> <td>Enterotoxigenic <i>E. coli</i> (ETEC) <i>lt/st</i></td> <td>Rotavirus A</td> <td><i>Giardia lamblia</i></td> </tr> <tr> <td><i>Yersinia enterocolitica</i></td> <td>Shiga-like toxin-producing <i>E. coli</i> (STEC) <i>stx1/stx2</i></td> <td>Sapovirus (I,II, IV, and V)</td> <td></td> </tr> <tr> <td><i>Vibrio (parahaemolyticus &amp; vulnificus)</i></td> <td><i>Shigella</i>/Enteroinvasive <i>E. coli</i> (EIEC)</td> <td></td> <td></td> </tr> <tr> <td><i>Vibrio cholerae</i></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Bacteria	Diarrheagenic <i>E. coli</i> / <i>Shigella</i>	Viruses	Parasites	<i>Campylobacter (jejuni, coli &amp; upsaliensis)</i>	<i>E. coli</i> O157	Adenovirus F 40/41	<i>Cryptosporidium</i>	<i>Clostridium difficile</i> (Toxin A/B)	Enteroaggregative <i>E. coli</i> (EAEC)	Astrovirus	<i>Cyclospora cayetanensis</i>	<i>Plesiomonas shigelloides</i>	Enteropathogenic <i>E. coli</i> (EPEC)	Norovirus GI/GII	<i>Entamoeba histolytica</i>	<i>Salmonella</i>	Enterotoxigenic <i>E. coli</i> (ETEC) <i>lt/st</i>	Rotavirus A	<i>Giardia lamblia</i>	<i>Yersinia enterocolitica</i>	Shiga-like toxin-producing <i>E. coli</i> (STEC) <i>stx1/stx2</i>	Sapovirus (I,II, IV, and V)		<i>Vibrio (parahaemolyticus &amp; vulnificus)</i>	<i>Shigella</i> /Enteroinvasive <i>E. coli</i> (EIEC)			<i>Vibrio cholerae</i>					
Bacteria	Diarrheagenic <i>E. coli</i> / <i>Shigella</i>	Viruses	Parasites																															
<i>Campylobacter (jejuni, coli &amp; upsaliensis)</i>	<i>E. coli</i> O157	Adenovirus F 40/41	<i>Cryptosporidium</i>																															
<i>Clostridium difficile</i> (Toxin A/B)	Enteroaggregative <i>E. coli</i> (EAEC)	Astrovirus	<i>Cyclospora cayetanensis</i>																															
<i>Plesiomonas shigelloides</i>	Enteropathogenic <i>E. coli</i> (EPEC)	Norovirus GI/GII	<i>Entamoeba histolytica</i>																															
<i>Salmonella</i>	Enterotoxigenic <i>E. coli</i> (ETEC) <i>lt/st</i>	Rotavirus A	<i>Giardia lamblia</i>																															
<i>Yersinia enterocolitica</i>	Shiga-like toxin-producing <i>E. coli</i> (STEC) <i>stx1/stx2</i>	Sapovirus (I,II, IV, and V)																																
<i>Vibrio (parahaemolyticus &amp; vulnificus)</i>	<i>Shigella</i> /Enteroinvasive <i>E. coli</i> (EIEC)																																	
<i>Vibrio cholerae</i>																																		



List of diagnostic tests we offer:

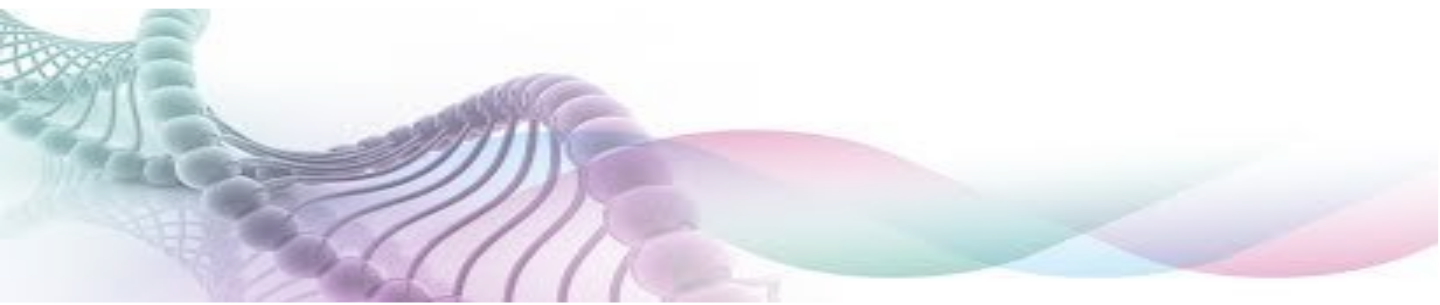
Tests	Specimen Requirements	Lab Turnaround Time (working day)								
<b>Gastrointestinal Pathogen Panel Assay-25 (GPP-25)</b> ➤ 25 pathogens	<ul style="list-style-type: none"> <li>• Stool sample</li> </ul>	1 day								
<table border="0"> <thead> <tr> <th>Bacteria (I)</th> <th>Bacteria (II)</th> <th>Viruses</th> <th>Parasites</th> </tr> </thead> <tbody> <tr> <td> <i>Campylobacter</i> spp.  <i>Clostridium difficile</i> Toxin B  <i>Salmonella</i> spp.  <i>Yersinia enterocolitica</i>  <i>Vibrio</i> spp.  <i>Shigella/Enteroinvasive E. coli</i> (EIEC)  <i>Aeromonas</i> spp.                             </td> <td> <i>E. coli</i> O157  <i>Clostridium difficile</i> hypervirulent                              Enteroaggregative <i>E. coli</i> (EAEC)                              Enteropathogenic <i>E. coli</i> (EPEC)                              Enterotoxigenic <i>E. coli</i> (ETEC)                              Enterohemorrhagic <i>E. coli</i> (EHEC)                             </td> <td>                             Adenovirus 40/41                              Astrovirus                              Norovirus GI                              Norovirus GII                              Rotavirus                              Sapovirus                             </td> <td> <i>Cryptosporidium</i> spp.  <i>Cyclospora cayetanensis</i>  <i>Entamoeba histolytica</i>  <i>Giardia lamblia</i>  <i>Blastocystis hominis</i>  <i>Dientamoeba fragilis</i> </td> </tr> </tbody> </table>	Bacteria (I)	Bacteria (II)	Viruses	Parasites	<i>Campylobacter</i> spp. <i>Clostridium difficile</i> Toxin B <i>Salmonella</i> spp. <i>Yersinia enterocolitica</i> <i>Vibrio</i> spp. <i>Shigella/Enteroinvasive E. coli</i> (EIEC) <i>Aeromonas</i> spp.	<i>E. coli</i> O157 <i>Clostridium difficile</i> hypervirulent Enteroaggregative <i>E. coli</i> (EAEC) Enteropathogenic <i>E. coli</i> (EPEC) Enterotoxigenic <i>E. coli</i> (ETEC) Enterohemorrhagic <i>E. coli</i> (EHEC)	Adenovirus 40/41 Astrovirus Norovirus GI Norovirus GII Rotavirus Sapovirus	<i>Cryptosporidium</i> spp. <i>Cyclospora cayetanensis</i> <i>Entamoeba histolytica</i> <i>Giardia lamblia</i> <i>Blastocystis hominis</i> <i>Dientamoeba fragilis</i>		
Bacteria (I)	Bacteria (II)	Viruses	Parasites							
<i>Campylobacter</i> spp. <i>Clostridium difficile</i> Toxin B <i>Salmonella</i> spp. <i>Yersinia enterocolitica</i> <i>Vibrio</i> spp. <i>Shigella/Enteroinvasive E. coli</i> (EIEC) <i>Aeromonas</i> spp.	<i>E. coli</i> O157 <i>Clostridium difficile</i> hypervirulent Enteroaggregative <i>E. coli</i> (EAEC) Enteropathogenic <i>E. coli</i> (EPEC) Enterotoxigenic <i>E. coli</i> (ETEC) Enterohemorrhagic <i>E. coli</i> (EHEC)	Adenovirus 40/41 Astrovirus Norovirus GI Norovirus GII Rotavirus Sapovirus	<i>Cryptosporidium</i> spp. <i>Cyclospora cayetanensis</i> <i>Entamoeba histolytica</i> <i>Giardia lamblia</i> <i>Blastocystis hominis</i> <i>Dientamoeba fragilis</i>							
<b>Gastrointestinal Pathogen Full Panel Assay (QGP)</b> ➤ 24 pathogens	<ul style="list-style-type: none"> <li>• Stool sample</li> </ul>	1 day								
<table border="0"> <thead> <tr> <th>Bacteria</th> <th>Bacteria</th> <th>Viruses</th> <th>Parasites</th> </tr> </thead> <tbody> <tr> <td> <i>Campylobacter</i> spp. (<i>jejuni</i>, <i>coli</i> &amp; <i>upsaliensis</i>)  <i>Salmonella</i> spp.  <i>Clostridium difficile</i> (tcdA/tcdB)  <i>Yersinia enterocolitica</i>  <i>Vibrio vulnificus</i>  <i>Vibrio parahaemolyticus</i>  <i>Vibrio cholerae</i>  <i>Plesiomonas shigelloides</i> </td> <td>                             Enteroaggregative <i>E. coli</i> (EAEC)                              Enteropathogenic <i>E. coli</i> (EPEC)                              Enterotoxigenic <i>E. coli</i> (ETEC)  <i>Shigella/Enteroinvasive E. coli</i> (EIEC)                              Shiga-like toxin producing <i>E. coli</i> (STEC)                              Shiga-like toxin producing <i>E. coli</i> (STEC) serotype O157:H7                             </td> <td>                             Human Adenovirus F40/F41                              Astrovirus                              Norovirus GI                              Norovirus GII                              Rotavirus A                              Sapovirus GI, GII, GIV, GV                             </td> <td> <i>Cryptosporidium</i> spp.  <i>Cyclospora cayetanensis</i>  <i>Entamoeba histolytica</i>  <i>Giardia lamblia</i> </td> </tr> </tbody> </table>	Bacteria	Bacteria	Viruses	Parasites	<i>Campylobacter</i> spp. ( <i>jejuni</i> , <i>coli</i> & <i>upsaliensis</i> ) <i>Salmonella</i> spp. <i>Clostridium difficile</i> (tcdA/tcdB) <i>Yersinia enterocolitica</i> <i>Vibrio vulnificus</i> <i>Vibrio parahaemolyticus</i> <i>Vibrio cholerae</i> <i>Plesiomonas shigelloides</i>	Enteroaggregative <i>E. coli</i> (EAEC) Enteropathogenic <i>E. coli</i> (EPEC) Enterotoxigenic <i>E. coli</i> (ETEC) <i>Shigella/Enteroinvasive E. coli</i> (EIEC) Shiga-like toxin producing <i>E. coli</i> (STEC) Shiga-like toxin producing <i>E. coli</i> (STEC) serotype O157:H7	Human Adenovirus F40/F41 Astrovirus Norovirus GI Norovirus GII Rotavirus A Sapovirus GI, GII, GIV, GV	<i>Cryptosporidium</i> spp. <i>Cyclospora cayetanensis</i> <i>Entamoeba histolytica</i> <i>Giardia lamblia</i>		
Bacteria	Bacteria	Viruses	Parasites							
<i>Campylobacter</i> spp. ( <i>jejuni</i> , <i>coli</i> & <i>upsaliensis</i> ) <i>Salmonella</i> spp. <i>Clostridium difficile</i> (tcdA/tcdB) <i>Yersinia enterocolitica</i> <i>Vibrio vulnificus</i> <i>Vibrio parahaemolyticus</i> <i>Vibrio cholerae</i> <i>Plesiomonas shigelloides</i>	Enteroaggregative <i>E. coli</i> (EAEC) Enteropathogenic <i>E. coli</i> (EPEC) Enterotoxigenic <i>E. coli</i> (ETEC) <i>Shigella/Enteroinvasive E. coli</i> (EIEC) Shiga-like toxin producing <i>E. coli</i> (STEC) Shiga-like toxin producing <i>E. coli</i> (STEC) serotype O157:H7	Human Adenovirus F40/F41 Astrovirus Norovirus GI Norovirus GII Rotavirus A Sapovirus GI, GII, GIV, GV	<i>Cryptosporidium</i> spp. <i>Cyclospora cayetanensis</i> <i>Entamoeba histolytica</i> <i>Giardia lamblia</i>							
<b>Gastrointestinal Pathogen Assay- Bacteria I Panel</b> ➤ 7 pathogens	<ul style="list-style-type: none"> <li>• Stool sample</li> </ul>	1 day								
<ul style="list-style-type: none"> <li>▪ <i>Campylobacter</i> spp.</li> <li>▪ <i>Clostridium difficile</i> Toxin B</li> <li>▪ <i>Salmonella</i> spp.</li> <li>▪ <i>Yersinia enterocolitica</i></li> <li>▪ <i>Vibrio</i> spp.</li> <li>▪ <i>Shigella/Enteroinvasive E. coli</i> (EIEC)</li> <li>▪ <i>Aeromonas</i> spp.</li> </ul>										





List of diagnostic tests we offer:

Tests	Specimen Requirements	Lab Turnaround Time (working day)
<b>Gastrointestinal Pathogen Assay- Bacteria II Panel</b> ➤ 6 pathogens <ul style="list-style-type: none"> <li>▪ <i>E. coli</i> O157</li> <li>▪ <i>Clostridium difficile</i> hypervirulent</li> <li>▪ Enteroaggregative <i>E. coli</i> (EAEC)</li> <li>▪ Enteropathogenic <i>E. coli</i> (EPEC)</li> <li>▪ Enterotoxigenic <i>E. coli</i> (ETEC)</li> <li>▪ Enterohemorrhagic <i>E. coli</i> (EHEC)</li> </ul>	• Stool sample	1 day
<b>Gastrointestinal Pathogen Assay- Virus Panel</b> ➤ 6 pathogens <ul style="list-style-type: none"> <li>▪ Adenovirus</li> <li>▪ Astrovirus</li> <li>▪ Norovirus GI</li> <li>▪ Norovirus GII</li> <li>▪ Rotavirus</li> <li>▪ Sapovirus</li> </ul>	• Stool sample	1 day
<b>Gastrointestinal Pathogen Assay- Parasite Panel</b> ➤ 6 pathogens <ul style="list-style-type: none"> <li>▪ <i>Cryptosporidium</i> spp.</li> <li>▪ <i>Cyclospora cayetanensis</i></li> <li>▪ <i>Entamoeba histolytica</i></li> <li>▪ <i>Giardia lamblia</i></li> <li>▪ <i>Blastocystis hominis</i></li> <li>▪ <i>Dientamoeba fragilis</i></li> </ul>	• Stool sample	1 day



List of diagnostic tests we offer:

Tests	Specimen Requirements	Lab Turnaround Time (working day)
<b>Respiratory Panels</b>		
<b>Respiratory Panel Assay (RP26)</b> ➤ 26 pathogens	<ul style="list-style-type: none"> <li>Nasopharyngeal aspirate</li> <li>Nasopharyngeal</li> <li>Bronchoalveolar lavage</li> <li>Sputum</li> </ul>	1 day
Influenza A virus (Flu A) Influenza B virus (Flu B) Respiratory syncytial virus A (RSV A) Respiratory syncytial virus B (RSV B) Flu A-H1 Flu A-H1pdm09 Flu A-H3	Adenovirus (AdV) Enterovirus (HEV) Parainfluenza virus 1 (PIV 1) Parainfluenza virus 2 (PIV 2) Parainfluenza virus 3 (PIV 3) Parainfluenza virus 4 (PIV 4) Metapneumovirus (MPV)	Bocavirus (HBoV) Rhinovirus (HRV) Coronavirus NL63 (CoV NL63) Coronavirus 229E (CoV 229E) Coronavirus OC43(CoV OC43)
<i>Mycoplasma pneumoniae</i> <i>Chlamydomphila pneumoniae</i> <i>Legionella pneumophila</i> <i>Haemophilus influenzae</i> <i>Streptococcus pneumoniae</i> <i>Bordetella pertussis</i> <i>Bordetella parapertussis</i>		
<b>Respiratory Flu Panel</b> ➤ 7 pathogens	<ul style="list-style-type: none"> <li>Nasopharyngeal aspirate</li> <li>Nasopharyngeal swab</li> <li>Bronchoalveolar lavage</li> <li>Sputum</li> </ul>	1 day
<ul style="list-style-type: none"> <li>Influenza A virus (Flu A)</li> <li>Influenza B virus (Flu B)</li> <li>Respiratory syncytial virus A (RSV A)</li> <li>Respiratory syncytial virus B (RSV B)</li> <li>Flu A-H1</li> <li>Flu A-H1pdm09</li> <li>Flu A-H3</li> </ul>		
<b>Respiratory Panel Assay- Virus Panel 2</b> ➤ 7 pathogens	<ul style="list-style-type: none"> <li>Nasopharyngeal aspirate</li> <li>Nasopharyngeal swab</li> <li>Bronchoalveolar lavage</li> <li>Sputum</li> </ul>	1 day
<ul style="list-style-type: none"> <li>Adenovirus (AdV)</li> <li>Enterovirus (HEV)</li> <li>Parainfluenza virus 1 (PIV 1)</li> <li>Parainfluenza virus 2 (PIV 2)</li> <li>Parainfluenza virus 3 (PIV 3)</li> <li>Parainfluenza virus 4 (PIV 4)</li> <li>Metapneumovirus (MPV)</li> </ul>		
<b>Respiratory Panel Assay- Virus Panel 3</b> ➤ 5 pathogens	<ul style="list-style-type: none"> <li>Nasopharyngeal aspirate</li> <li>Nasopharyngeal swab</li> <li>Bronchoalveolar lavage</li> <li>Sputum</li> </ul>	1 day
<ul style="list-style-type: none"> <li>Bocavirus (HBoV)</li> <li>Rhinovirus (HRV)</li> <li>Coronavirus NL63 (CoV NL63)</li> <li>Coronavirus 229E (CoV 229E)</li> <li>Coronavirus OC43 (CoV OC43)</li> </ul>		
<b>Respiratory Panel Assay-Viral Panel (RV19)</b> ➤ 19 pathogens	<ul style="list-style-type: none"> <li>Nasopharyngeal aspirate</li> <li>Nasopharyngeal swab</li> <li>Bronchoalveolar lavage</li> <li>Sputum</li> </ul>	1 day
Influenza A virus (Flu A) Influenza B virus (Flu B) Respiratory syncytial virus A (RSV A) Respiratory syncytial virus B (RSV B) Flu A-H1 Flu A-H1pdm09 Flu A-H3	Adenovirus (AdV) Enterovirus (HEV) Parainfluenza virus 1 (PIV 1) Parainfluenza virus 2 (PIV 2) Parainfluenza virus 3 (PIV 3) Parainfluenza virus 4 (PIV 4) Metapneumovirus (MPV)	Bocavirus (HBoV) Rhinovirus (HRV) Coronavirus NL63 (CoV NL63) Coronavirus 229E (CoV 229E) Coronavirus OC43(CoV OC43)
<b>Respiratory Panel Assay- Bacterial Panel (RB7)</b> ➤ 7 pathogens	<ul style="list-style-type: none"> <li>Nasopharyngeal aspirate</li> <li>Nasopharyngeal swab</li> <li>Bronchoalveolar lavage</li> <li>Sputum</li> </ul>	1 day
<ul style="list-style-type: none"> <li><i>Mycoplasma pneumoniae</i></li> <li><i>Chlamydomphila pneumoniae</i></li> <li><i>Legionella pneumophila</i></li> <li><i>Haemophilus influenzae</i></li> <li><i>Streptococcus pneumoniae</i></li> <li><i>Bordetella pertussis</i></li> <li><i>Bordetella parapertussis</i></li> </ul>		

List of diagnostic tests we offer:

Tests	Specimen Requirements	Lab Turnaround Time (working day)
<b>SARS-Coronavirus-2 (COVID-19) Real-Time PCR Assay</b>	•Nasopharyngeal swab and Oropharyngeal swab	1-2 days
<b>SARS-Coronavirus-2 (COVID-19) POCT PCR Assay</b>	•Nasopharyngeal swab and Oropharyngeal swab	12 hours
<b>SARS-Coronavirus-2 (COVID-19) Rapid Antibody Assay (IgG &amp; IgM)</b> ➤ Qualitative detection of IgG and IgM	<ul style="list-style-type: none"> <li>• 1x3 ml EDTA blood</li> <li>• 1 ml EDTA plasma</li> <li>• 1x3 ml SST blood</li> <li>• 1 ml Serum</li> </ul>	1 day

Tests	Specimen Requirements	Lab Turnaround Time (working day)
-------	-----------------------	-----------------------------------

Other Infectious Diseases Panels																											
<b>Dengue, Chikungunya and Zika RT-PCR Assay</b>	<ul style="list-style-type: none"> <li>• 2x3 ml EDTA blood</li> <li>• 2 ml EDTA plasma</li> <li>• 3 ml urine</li> </ul>	2 days																									
<b>Rapid PCR for Meningitis/Encephalitis Panel (ME)</b> ➤ 14 pathogens	<table border="1"> <thead> <tr> <th>Bacteria</th> <th>Viruses</th> <th>Yeast</th> </tr> </thead> <tbody> <tr> <td><i>Escherichia coli</i> K1</td> <td>Cytomegalovirus</td> <td><i>Cryptococcus neoformans/gattii</i></td> </tr> <tr> <td><i>Haemophilus influenzae</i></td> <td>Enterovirus</td> <td></td> </tr> <tr> <td><i>Listeria monocytogenes</i></td> <td>Herpes simplex virus 1</td> <td></td> </tr> <tr> <td><i>Neisseria meningitidis</i></td> <td>Herpes simplex virus 2</td> <td></td> </tr> <tr> <td><i>Streptococcus agalactiae</i></td> <td>Human herpesvirus 6</td> <td></td> </tr> <tr> <td><i>Streptococcus pneumoniae</i></td> <td>Human parechovirus</td> <td></td> </tr> <tr> <td></td> <td>Varicella zoster virus</td> <td></td> </tr> </tbody> </table>	Bacteria	Viruses	Yeast	<i>Escherichia coli</i> K1	Cytomegalovirus	<i>Cryptococcus neoformans/gattii</i>	<i>Haemophilus influenzae</i>	Enterovirus		<i>Listeria monocytogenes</i>	Herpes simplex virus 1		<i>Neisseria meningitidis</i>	Herpes simplex virus 2		<i>Streptococcus agalactiae</i>	Human herpesvirus 6		<i>Streptococcus pneumoniae</i>	Human parechovirus			Varicella zoster virus		6 hours	
Bacteria	Viruses	Yeast																									
<i>Escherichia coli</i> K1	Cytomegalovirus	<i>Cryptococcus neoformans/gattii</i>																									
<i>Haemophilus influenzae</i>	Enterovirus																										
<i>Listeria monocytogenes</i>	Herpes simplex virus 1																										
<i>Neisseria meningitidis</i>	Herpes simplex virus 2																										
<i>Streptococcus agalactiae</i>	Human herpesvirus 6																										
<i>Streptococcus pneumoniae</i>	Human parechovirus																										
	Varicella zoster virus																										

<b>Meningitis/Encephalitis 22 Panel Assay</b> ➤ 22 pathogens	• 0.5-1ml cerebrospinal fluid (CSF)	1 day																																								
<table border="1"> <thead> <tr> <th>Bacteria</th> <th>Viruses</th> <th>Yeast</th> </tr> </thead> <tbody> <tr> <td><i>Escherichia coli</i> K1</td> <td>Mumps virus</td> <td><i>Cryptococcus neoformans</i> sensu lato</td> </tr> <tr> <td><i>Haemophilus influenzae</i></td> <td>Measles virus</td> <td><i>Cryptococcus gattii</i> sensu lato</td> </tr> <tr> <td><i>Listeria monocytogenes</i></td> <td>Human enterovirus</td> <td></td> </tr> <tr> <td><i>Neisseria meningitidis</i></td> <td>Parechovirus</td> <td></td> </tr> <tr> <td><i>Streptococcus agalactiae</i></td> <td>Herpes simplex virus 1</td> <td></td> </tr> <tr> <td><i>Streptococcus pneumoniae</i></td> <td>Herpes simplex virus 2</td> <td></td> </tr> <tr> <td><i>Staphylococcus aureus</i></td> <td>Varicella zoster virus</td> <td></td> </tr> <tr> <td><i>Borrelia burgdorferi</i> sensu lato/ <i>Borrelia miyamotoi</i></td> <td>Epstein-Barr virus</td> <td></td> </tr> <tr> <td></td> <td>Cytomegalovirus</td> <td></td> </tr> <tr> <td></td> <td>Human herpesvirus 6</td> <td></td> </tr> <tr> <td></td> <td>Human herpesvirus 7</td> <td></td> </tr> <tr> <td></td> <td>Human herpesvirus 8</td> <td></td> </tr> </tbody> </table>	Bacteria	Viruses	Yeast	<i>Escherichia coli</i> K1	Mumps virus	<i>Cryptococcus neoformans</i> sensu lato	<i>Haemophilus influenzae</i>	Measles virus	<i>Cryptococcus gattii</i> sensu lato	<i>Listeria monocytogenes</i>	Human enterovirus		<i>Neisseria meningitidis</i>	Parechovirus		<i>Streptococcus agalactiae</i>	Herpes simplex virus 1		<i>Streptococcus pneumoniae</i>	Herpes simplex virus 2		<i>Staphylococcus aureus</i>	Varicella zoster virus		<i>Borrelia burgdorferi</i> sensu lato/ <i>Borrelia miyamotoi</i>	Epstein-Barr virus			Cytomegalovirus			Human herpesvirus 6			Human herpesvirus 7			Human herpesvirus 8				
Bacteria	Viruses	Yeast																																								
<i>Escherichia coli</i> K1	Mumps virus	<i>Cryptococcus neoformans</i> sensu lato																																								
<i>Haemophilus influenzae</i>	Measles virus	<i>Cryptococcus gattii</i> sensu lato																																								
<i>Listeria monocytogenes</i>	Human enterovirus																																									
<i>Neisseria meningitidis</i>	Parechovirus																																									
<i>Streptococcus agalactiae</i>	Herpes simplex virus 1																																									
<i>Streptococcus pneumoniae</i>	Herpes simplex virus 2																																									
<i>Staphylococcus aureus</i>	Varicella zoster virus																																									
<i>Borrelia burgdorferi</i> sensu lato/ <i>Borrelia miyamotoi</i>	Epstein-Barr virus																																									
	Cytomegalovirus																																									
	Human herpesvirus 6																																									
	Human herpesvirus 7																																									
	Human herpesvirus 8																																									



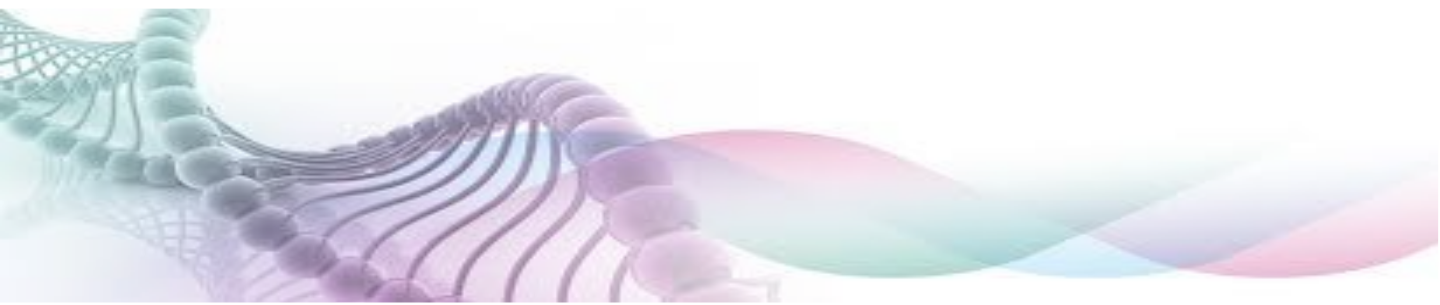
List of diagnostic tests we offer:

Tests	Specimen Requirements	Lab Turnaround Time (working day)
<b>Fecal Calprotectin Assay</b>	<ul style="list-style-type: none"> <li>• Stool in universal container</li> </ul>	1 day
<b>Rapid HSV 1 &amp; 2 Assay</b>	<ul style="list-style-type: none"> <li>• Cutaneous lesion swab</li> <li>• Mucocutaneous lesion swab</li> <li>• 0.5 ml Cerebrospinal fluid</li> <li>• 3 ml EDTA blood</li> </ul>	1 day
<b>Therapeutic Drug Monitoring Panels</b>		
<b>Infliximab Trough Level Assay</b>	<ul style="list-style-type: none"> <li>• 3 ml whole blood</li> <li>• 300 µL serum</li> </ul>	1 day
<b>Adalimumab Trough Level Assay</b>	<ul style="list-style-type: none"> <li>• 3 ml whole blood</li> <li>• 300 µL serum</li> </ul>	1 day
<b>Anti-Infliximab Antibody Level Assay</b>	<ul style="list-style-type: none"> <li>• 3 ml blood in SST</li> <li>• 3 ml blood in plain tube</li> <li>• 300 µL serum</li> </ul>	1 day
<b>Anti-Adalimumab Antibody Level Assay</b>	<ul style="list-style-type: none"> <li>• 3 ml blood in SST</li> <li>• 3 ml blood in plain tube</li> <li>• 300 µL serum</li> </ul>	1 day
<b>Infliximab Trough Level and Anti-Infliximab Antibody Combo Assay</b>	<ul style="list-style-type: none"> <li>• 3 ml blood in SST</li> <li>• 3 ml blood in plain tube</li> <li>• 300 µL serum</li> </ul>	1 day
<b>Adalimumab Trough Level and Anti-Adalimumab Antibody Combo Assay</b>	<ul style="list-style-type: none"> <li>• 3 ml blood in SST</li> <li>• 3 ml blood in plain tube</li> <li>• 300 µL serum</li> </ul>	1 day
<b>Food Intolerance Panels</b>		
<b>Food Intolerance Premium Panel</b> ➤ Test for reactions to 222 eaten foods	<ul style="list-style-type: none"> <li>• 3 ml EDTA blood</li> <li>• 3 ml whole blood</li> <li>• 300 µL EDTA plasma/ serum</li> </ul>	5 days
<b>Food Intolerance Basic Panel</b> ➤ Test for reactions to 59 eaten foods	<ul style="list-style-type: none"> <li>• 3 ml EDTA blood</li> <li>• 3 ml whole blood</li> <li>• 300 µL EDTA plasma/ serum</li> </ul>	5 days



## Appendix 1 (Criteria for rejection of specimens)

1. Incomplete Laboratory Test Service Request Form
  - Absence of clinician's name / signature
  - Absence of date / time of sampling
  - Unclear patient data
2. Mismatch patient details on specimen and request form
3. Unclear test requested
4. Insufficient specimen
5. Wrong specimen type
6. Leaking specimen
7. Clotted specimen
8. Lysed specimen
9. Delayed sample
10. Wrong specimen storage condition
11. Improper transport condition for specimen
12. No sample received
13. Test not offered
14. Broken tube



**Neogenix Laboratoire Sdn Bhd (HQ)**

C707, Level 7, Block C, Kelana Square,  
Kelana Jaya, 47301 Petaling Jaya,  
Selangor, Malaysia

T 03-7621 2154 F 03-7621 2153

**Neogenix Laboratoire Sdn Bhd (Johor)**

12-2 Jalan Permas 10/6, Bandar Baru Permas Jaya,  
81750 Masai, Johor

**Neogenix Laboratoire Sdn Bhd (Sabah)**

G-G-22A & G-G-26, Ground Floor, Block G, Lor  
Inanam Kapital 5, Inanam Capital, 88450 Kota  
Kinabalu, Sabah

E [info@neogenix.org](mailto:info@neogenix.org)

W [www.neogenix.org](http://www.neogenix.org)



**Test Sample Collection?**

**Call our expertise**

03-76212154

-Office

016-4128947

-Mr Vin

011-10928901

-Mr Arif

010-9552338

-Mr Daniel

010-5521303

-Ms Adeela

012-9895479

-Ms Janice

