



# Regional Virology Laboratory AIIMS Bhopal

## Services available and sample requirements



### A. Viral Hepatitis:

Virus	*Sample Type	Sample Volume	Transportation Temperature	Testing Methodology	Turn Around Time
Hepatitis A	Serum or Plasma	2 ml	2-8 <sup>0</sup> C (upto 1 week)	IgM ELISA	Weekly
Hepatitis B	Serum or Plasma	2 ml	2-8 <sup>0</sup> C (upto 1 week)	HBsAg ELISA	48 hours
Hepatitis C	Serum or Plasma	2 ml	2-8 <sup>0</sup> C (upto 1 week)	Total Ab ELISA	48 hours
Hepatitis D	Serum or Plasma	2 ml	2-8 <sup>0</sup> C (upto 1 week)	Anti-HDV ELISA	Weekly
Hepatitis E	Serum or Plasma	2 ml	2-8 <sup>0</sup> C (upto 1 week)	IgM ELISA	Weekly

### B. Systemic Febrile Illness:

Virus	*Sample Type	Sample Volume	Transportation Temperature	Testing Methodology	Turn Around Time
Dengue	Serum	2 ml	2-8 <sup>0</sup> C (upto 1 week)	IgM ELISA	72 hours
Dengue	Serum or Plasma (EDTA/ Citrate/ Heparin anti-coagulant for Plasma)	2 ml	2-8 <sup>0</sup> C (upto 24 hours) -20 <sup>0</sup> C (for longer duration)	NS-1 Ag ELISA	72 hours
Chikungunya	Serum	2 ml	2-8 <sup>0</sup> C (upto 1 week)	IgM ELISA	72 hours
Epstein–Barr virus	Serum or Plasma (EDTA/ Heparin anticoagulant for Plasma)	2 ml	2-8 <sup>0</sup> C (upto 1 week)	IgM ELISA	Weekly
Cytomegalovirus	Serum/CSF	CSF–0.5ml Serum–2ml	2-8 <sup>0</sup> C (upto 1 week)	IgM ELISA	Weekly

### C. Encephalitis:

Virus	*Sample Type	Sample Volume	Transportation Temperature	Testing Methodology	Turn Around Time
Japanese Encephalitis	Serum/CSF	CSF–0.5ml Serum–2ml	2-8 <sup>0</sup> C (upto 2 days)	IgM ELISA	Fortnightly
West Nile Virus	Serum	2 ml	2-8 <sup>0</sup> C (upto 2 days)	IgM ELISA	Weekly
Herpes Simplex Virus	CSF	1 ml	2-8 <sup>0</sup> C (upto 2 days)	PCR	Weekly
Enteroviruses	CSF	1 ml	2-4 <sup>0</sup> C (upto 4 days)	RT-PCR	Weekly
Cytomegalovirus	Serum/CSF	CSF-500µl Serum -2ml	2-8 <sup>0</sup> C (upto 1 week)	IgM ELISA	Weekly
Varicella Zoster Virus	Serum or Plasma (EDTA/Heparin Anticoagulant for Plasma)	2 ml	2-8 <sup>0</sup> C (upto 1 week)	IgM ELISA	Weekly

\*Serum sample should be sent in sterile leak-proof plastic tubes without adding anticoagulant

\*CSF/Urine/Stool/Amniotic fluid/Tracheal aspirate/BAL/Nasopharyngeal aspirate/sputum sample should be sent in sterile, screw capped, spill-proof universal container



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### D. Exanthematous fever:

Virus	*Sample type	Sample Volume	Transportation Temperature	Testing Methodology	Turn Around Time
Human Parvovirus B-19	Serum or Plasma (Citrate anticoagulant for Plasma)	2 ml	2-8°C (upto 5 days)	IgM ELISA	Weekly
Varicella Zoster	Serum or Plasma (EDTA/ Heparin anticoagulant for Plasma)	2 ml	2-8°C (upto 1 week)	IgM ELISA	Weekly
Measles Virus	Serum or Plasma (Citrate/ EDTA/Heparin anticoagulant for Plasma)	2 ml	2-8°C (upto 3 days)	IgM ELISA	Weekly
Rubella Virus	Serum or Plasma (Citrate/ EDTA/ Heparin anticoagulant for Plasma)	2 ml	2-8°C (upto 3 days)	IgM ELISA	Weekly
Mumps Virus	Serum or Plasma (EDTA/ Heparin anticoagulant for plasma)	2 ml	2-8°C (upto 1 week)	IgM ELISA	Weekly

### E. Gastroenteritis:

Virus	*Sample Type	Sample Volume	Transportation Temperature	Testing Methodology	Turn Around Time
Rotavirus	Stool/ Rectal Swab	NA	2-8°C (upto 3 days)	Rota Antigen ELISA	Weekly
Rotavirus	Stool	NA	2-8°C (upto 3 days) - 20°C (for longer duration)	qRT-PCR	Fortnightly
Enterovirus					
Adenovirus					
Norovirus					
Astrovirus					
Sapovirus					

### F. Respiratory Infection:

Virus	*Sample Type	Sample Volume	Transportation Temperature	Testing Methodology	Turn Around Time
Influenza A H1N1 pdm09 virus (Swine Flu)	BAL/ Tracheal aspirate/ Sputum/ Nasopharyngeal aspirate in VTM vial	NA	2-4°C (upto 24 hours) -20°C (for longer duration)	qRT-PCR	48 hours
Influenza A H3N2					48 hours
Influenza B					48 hours
Respiratory Syncytial Virus					Weekly
Human Rhinovirus					Weekly
Human Metapneumovirus					Weekly
Parainfluenza Virus					Weekly
Respiratory Adenovirus					Weekly

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### G. Viral Load

Virus	*Sample Type	Sample Volume	Transportation Temperature	Testing Methodology	Turn Around Time
Hepatitis B	Serum or Plasma	2 ml	2-8°C (upto 1 week)	Quantitative RT-PCR	Fortnightly
Hepatitis C	Serum or Plasma	2 ml	2-8°C (upto 1 week)	Quantitative RT-PCR	Fortnightly
Cytomegalovirus	Serum or Plasma	2 ml	2-8°C (upto 1 week)	Quantitative RT-PCR	Fortnightly

### H. Surveillance for agent of public health importance:

Virus	*Sample Type	Sample Volume	Transportation Temperature	Testing Methodology
Zika virus	Serum/ Amniotic Fluid/ CSF/ Urine	2.0 ml	2-4°C (upto 4 days)	qRT-PCR

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