



Regional Virology Laboratory AIIMS Bhopal

Services available and sample requirements



A. Viral Hepatitis:-

Virus	*Sample Type	Sample Volume	Transportation Temperature	Testing Methodology
Hepatitis A	Serum or Plasma	2 ml	2-8 ⁰ C (upto 1 week)	IgM ELISA
Hepatitis B	Serum or Plasma	2 ml	2-8 ⁰ C (upto 1 week)	HBsAg ELISA
Hepatitis C	Serum or Plasma	2 ml	2-8 ⁰ C (upto 1 week)	Total Ab ELISA
Hepatitis D	Serum or Plasma	2 ml	2-8 ⁰ C (upto 1 week)	Anti-HDV ELISA
Hepatitis E	Serum or Plasma	2 ml	2-8 ⁰ C (upto 1 week)	IgM ELISA

B. Systemic Febrile Illness:-

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

C. Encephalitis:-

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

*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
Human Parvovirus B-19	Serum or Plasma (Citrate anticoagulant for Plasma)	2 ml	2-8 ⁰ C (upto 5 days)	IgM ELISA
Varicella Zoster	Serum or Plasma (EDTA/ Heparin anticoagulant for Plasma)	2 ml	2-8 ⁰ C (upto 1 week)	IgM ELISA
Measles Virus	Serum or Plasma (Citrate/ EDTA/ Heparin anticoagulant for Plasma)	2 ml	2-8 ⁰ C (upto 3 days)	IgM ELISA
Rubella Virus	Serum or Plasma (Citrate/ EDTA/ Heparin anticoagulant for Plasma)	2 ml	2-8 ⁰ C (upto 3 days)	IgM ELISA
Mumps Virus	Serum or Plasma (EDTA/ Heparin anticoagulant for plasma)	2 ml	2-8 ⁰ C (upto 1 week)	IgM ELISA

E. Gastroenteritis:-

Virus	*Sample Type	Sample Volume	Transportation Temperature	Testing Methodology
Rotavirus	Stool/ Rectal Swab	NA	2-8 ⁰ C (upto 3 days)	Rota Antigen ELISA
Enterovirus	Stool	NA	2-4 ⁰ C (upto 4 days)	RT-PCR

F. Respiratory Infection:-

Virus	*Sample Type	Sample Volume	Transportation Temperature	Testing Methodology
Influenza A H1N1 pdm09 virus (Swine Flu)	BAL/ Tracheal aspirate/ Sputum/ Nasopharyngeal aspirate in VTM vial.	NA	2-4 ⁰ C (upto 24 hours) -20 ⁰ C (for longer duration) 2	qRT-PCR
Influenza B				
Respiratory Syncytial Virus				RT-PCR
Human Rhinovirus				
Human Metapneumovirus				
Parainfluenza Virus				
Respiratory Adenovirus				PCR

G. 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 ⁰ C (upto 4 days)	qRT-PCR

*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