

Regional Virology Laboratory AIIMS Bhopal

Services available and sample requirements

A. Viral Hepatitis:-

Virus	Sample type	Sample volume	Transportation Temperature	Testing methodology
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)	Hepatitis C Total Ab ELISA
Hepatitis E	Serum or Plasma	2 ml	2-8 ⁰ C (upto 1 week)	HEV 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)	Dengue 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)	Dengue NS-1 Ag ELISA
Chikungunya	Serum	2 ml	2-8 ⁰ C (upto 1 week)	Chikungunya virus IgM ELISA
Epstein–Barr virus	Serum or Plasma (EDTA/Heparin anticoagulant for Plasma)	2 ml	2-8 ⁰ C (upto 1 week)	Epstein-Barr IgM ELISA
Cytomegalovirus	Serum/CSF	CSF–0.5ml Serum–2ml	2-8 ⁰ C (upto 1 week)	Cytomegalovirus IgM ELISA

C. Encephalitis:-

Virus	Sample type	Sample volume	Transportation Temperature	Testing Methodology
West Nile Virus	Serum	2 ml	2-8 ⁰ C (upto 2 days)	West Nile IgM ELISA
Enteroviruses	CSF	1 ml	2-4 ⁰ C (upto 4 days)	RT-PCR
Cytomegalo virus	Serum/CSF	CSF-0.5 ml Serum -2ml	2-8 ⁰ C (upto 1 week)	Cytomegalo IgM ELISA
Varicella Zoster Virus	Serum or Plasma (EDTA/ Heparin anticoagulant for Plasma)	2 ml	2-8 ⁰ C (upto 1 week)	Varicella Zoster IgM ELISA

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D. Exanthematous fever :-

Virus	Sample type	Sample volume	Transportation Temperature	Testing methodology
Human Parvovirus	Serum or Plasma (Citrate anticoagulant for Plasma)	2 ml	2-8 ⁰ C (upto 5 days)	Parvo B-19 IgM ELISA
Varicella Zoster	Serum or Plasma (EDTA/ Heparin anticoagulant for Plasma)	2 ml	2-8 ⁰ C (upto 1 week)	Varicella Zoster IgM ELISA
Measles Virus	Serum or Plasma (Citrate/ EDTA/ Heparin anticoagulant for Plasma)	2 ml	2-8 ⁰ C (upto 3 days)	Measles IgM ELISA
Rubella Virus	Serum or Plasma (Citrate/ EDTA/ Heparin anticoagulant for Plasma)	2 ml	2-8 ⁰ C (upto 3 days)	Rubella IgM ELISA
Mumps Virus	Serum or Plasma (EDTA/ Heparin anticoagulant for Plasma)	2 ml	2-8 ⁰ C (upto 1 week)	Mumps IgM ELISA

E. Gastroenteritis:-

Virus	Sample type	Sample volume	Transportation Temperature	Testing Methodology
Rota virus	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. Nasopharyngeal/ Oropharyngeal Swab in VTM vial	NA	2-4 ⁰ C (upto 4 days)	qRT-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)	RT-PCR