

## ELISA for differentiation of EHV1 & 4 Infections

<b>Title of technology</b>	<b>Recombinant gG-based type-specific ELISA for differentiation of EHV1 &amp; 4 Infection</b>
<p><b>Preamble</b>  Equine herpesvirus-1 (EHV1) and equine herpesvirus-4 (EHV4) together responsible for ‘Equine Rhinopneumonitis’, an OIE listed disease of equines. EHV-1 in addition is foremost cause of abortions, neurological disorders and perinatal foal mortality. Disease is endemic across the globe including India. The differential diagnosis of EHV-1 and EHV-4 viruses is often complicated due to antigenic cross-reactivity between the two viruses. A recombinant glycoprotein G based ELISA for differentiation and diagnosis of EHV1 and EHV4 was developed by NRCE and the kit is being routinely use in sero-surveillance at the Centre.</p>	
<p><b>Salient features</b></p> <ul style="list-style-type: none"> <li>• It is a recombinant protein based ELISA kit for differentiation and diagnosis of EHV1 and EHV4 infection.</li> <li>• The kit has capacity to test 32 samples which includes three controls.</li> <li>• An OD on &gt;0.300 is considered positive for EHV1/4 in serum samples.</li> <li>• This kit has been validated internally and externally using field serum samples</li> <li>• The shelf life of the kit was found to be more than 4 months.</li> <li>• This kit is used for sero-epidemiological studies, diagnosis and for differentiation of EHV-1 and EHV-4 infections</li> </ul>	
<p><b>Stakeholders</b></p> <ul style="list-style-type: none"> <li>• Biopharmaceutical companies</li> <li>• State Animal Husbandry Departments</li> <li>• State Govt. Veterinary Biologicals Production Units</li> <li>• Small Entrepreneurs</li> <li>• Equine farmers</li> <li>• Indigenous Horse Societies / Army/ Police Departments etc.,</li> </ul>	
<p><b>Economic benefits</b></p> <ul style="list-style-type: none"> <li>• This kit will help in timely diagnosis and differentiation of EHV1 and EHV4 infection</li> <li>• The test is useful for assessment of herd immunity in equine breeding farms where vaccination is undertaken against EHV-1.</li> <li>• It will help in control of the diseases.</li> </ul>	
	