Equine Rotavirus ELISA kit.

	Τ	Equip Rotavirus Kit
Title of technology		
Preamble		
Rotaviruses, members of the family Reoviridae, are the major etiologic agents of severe, acute dehydrating		
diarrhearesulting in high morbidity and mortality in neonatal animals (including foals) and human infants. Rapid		
diagnosis of rotavirus-associated diarrhoea is important in managing the outbreak and for further spread of		
disease in the herd. A monoclonal antibody (mAb)-based sandwich enzyme immunoassayhas been developed		
for diagnosis of rotavirus in different animals and human stool samples. This kit employs a polyclonal anti-		
rotavirus serum as coating antibody to capture the rotavirus antigen and a monoclonal antibody is used for		
detection of group-specific antigen present on the captured rotaviruses. Salient features		
• This kit is a monoclonal antibody basedELISA assay for detection of rotavirus from equine stool samples.		
• The mAb raised against group-specific protein VP6 of rotavirus, for detection of mammalian group A rotaviruses.		
• Stool suspension or control sample is added in the ELISA modules coated with polyclonal antibody to capture rotavirus antigens.		
• This kit employs a polyclonal anti-rotavirus serum to capture the rotavirus antigen and a monoclonal antibody detect group-specific antigen present on the captured rotaviruses		
• The assay has 100% sensitivity and a specificity of 96% in comparison to virus isolation.		
• The colour intensity in comparison with the negative controls indicates the presence of rotavirus in the		
samples		
Stakeholders		
Biopharmaceutical companies		
State Animal Husbandry Departments		
State Govt Veterinary Biologicals Production Units		
• Small Entrepreneurs		

- Equine farmers
- Indigenous Horse Societies / Army/ Police Departments

Economic benefits

- This kit will help in timely diagnosis of rotavirus associated diarrhoea in animal and human population
- It will help in developing control strategies for the diseases.