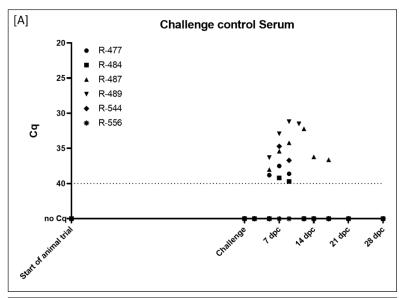
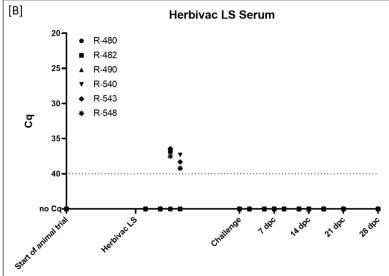
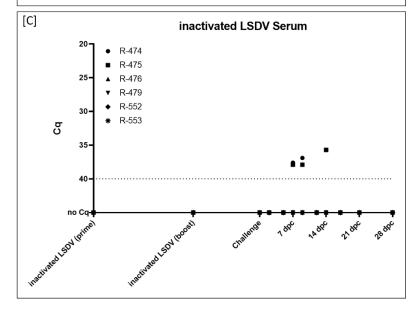


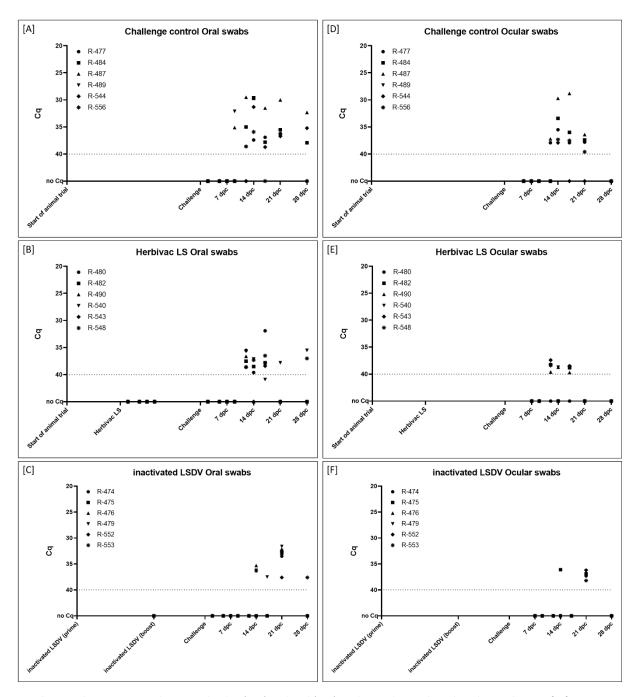
Supplemental Figure S1. Body temperature of the cattle during the proof-of-concept animal trial. Body temperature was measured daily starting a few days before first vaccination with inactivated LSDV until 28 dpc. (A) Cattle of Group 1A were left unvaccinated and served as challenge control group. (B) Cattle of Group 1B received the commercially available life-attenuated vaccine "Herbivac LS", and (C) cattle of Group 1C were vaccinated with an inactivated vaccine prototype on basis of LSDV-"Neethling vaccine" strain.



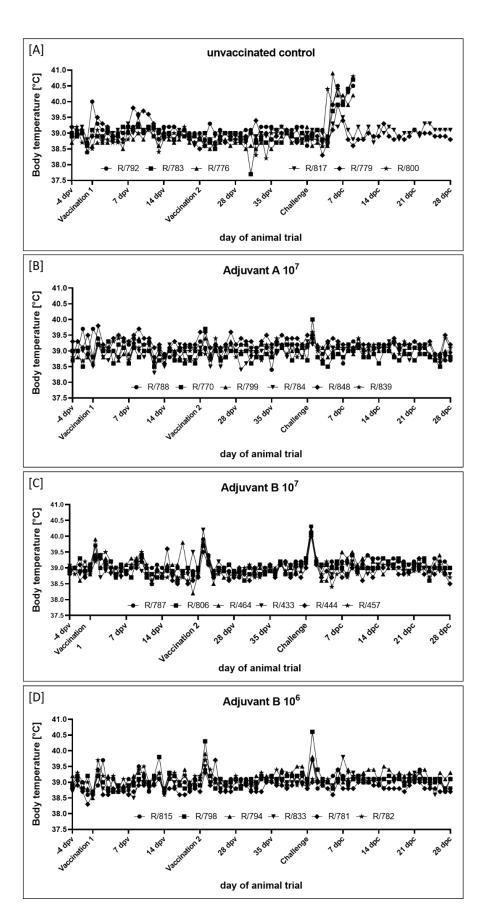




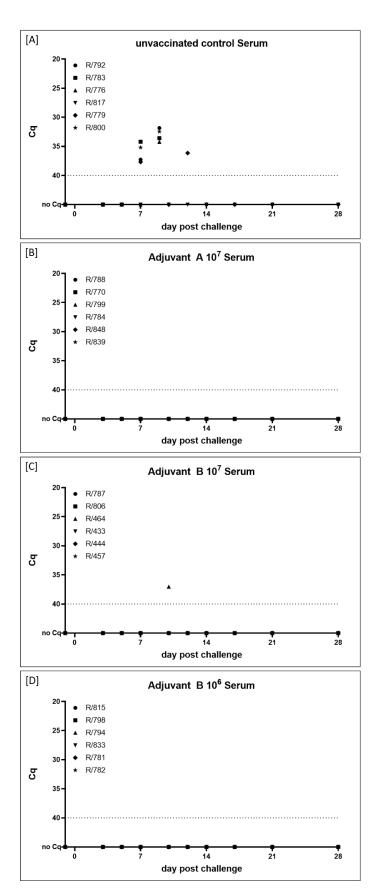
Supplemental Figure S2. Viral genome load in serum samples taken during the proof-of-concept study. **(A)** Cattle of Group 1A were left unvaccinated and served as challenge control group. **(B)** Cattle of Group 1B received the commercially available life-attenuated vaccine "Herbivac LS", and **(C)** cattle of Group 1C were vaccinated with an inactivated vaccine prototype on basis of LSDV-"Neethling vaccine" strain. Samples were taken at defined time points during the animal trial and analyzed regarding their viral genome load. Cut-off was defined at Cq 40.0.



Supplemental Figure S3. Viral genome load in (A-C) oral and (D-F) ocular swab samples taken during the proof-of-concept study. (A+D) Cattle of Group 1A were left unvaccinated and served as challenge control group. (B+E) Cattle of Group 1B received the commercially available life-attenuated vaccine "Herbivac LS", and (C+F) cattle of Group 1C were vaccinated with an inactivated vaccine prototype on basis of LSDV-"Neethling vaccine" strain. Samples were taken at defined time points during the animal trial and analyzed regarding their viral genome load. Cut-off was defined at Cq 40.0.



Supplemental Figure S4. Body temperature of the cattle during the vaccine-efficacy study. (**A**) Cattle of Group 2A serve as mock-control and received PBS. Animals of the other groups were immunized with inactivated LSDV-"Serbia" field strain using different adjuvants and virus titers before inactivation. (**B**) Cattle of Group 2B were vaccinated with Adjuvant A 10⁷, (**C**) cattle of Group 2C received Adjuvant B 10⁷, and (**D**) animals of Group 2D were immunized with Adjuvant B 10⁶ prototype vaccine. Body temperature was measured daily from -4 dpv until 28 dpc.



Supplemental Figure S5. Viral genome load in serum samples taken during the vaccine-efficacy animal trial. (A) Cattle of Group 2A serve as mock-control and received PBS. Animals of the other groups were immunized with inactivated LSDV-"Serbia" field strain using different adjuvants and virus titers before inactivation. (B) Cattle of Group 2B were vaccinated with Adjuvant A 10^7 , (C) cattle of Group 2C received Adjuvant B 10^7 , and (D) animals of Group 2D were immunized with Adjuvant B 10^6 prototype vaccine. The samples were taken at certain time points during the animal trial and analyzed regarding the viral genome load. Cut-off was set at Cq 40.0.