

Sendai virus antiserum produced in SPF chickens

I. Sendai virus

The original virus was obtained from American Type Culture Collection (ATCC), product code VR-907, identified as Parainfluenza 1, Sendai/Cantell strain. It was passaged several times by inoculating the virus into the Chorioallantoic Sac of 9-11 day old embryonated SPF chicken eggs.

II. Antiserum production

Antiserum was produced in adult male SPF chickens. The chickens were removed from an existing SPF flock and brought to the laboratory animal facility. There they were housed in a single room under biosecurity and HEPA-filtered air under positive pressure.

The initial immunization was by inoculating approximately 10^6 EID₅₀ of Sendai virus in tryptose phosphate broth by intravenous administration. A booster immunization was performed using approximately 16,000 HA units of partially-purified Sendai virus mixed with Complete Freund's Adjuvant and administered intramuscularly. Two weeks later, a second booster, using the same viral material but mixed with Incomplete Freund's Adjuvant, was administered intramuscularly. Approximately two weeks after the second booster immunization, individual birds were test bled and the sera tested for potency using an SN and HI test and also for specificity using a variety of techniques. Please note specificity and potency results on the accompanying Quality Control Sheet.

Following satisfactory test results, the chickens were exsanguinated by cardiac puncture and the serum collected and filter sterilized through a 0.20 micron filter and heat inactivated at 56°C for 30 minutes.

III. Testing procedures

Protocols for testing procedures available upon request.

IV. Quality Control

Quality Control Sheet for source flock will be provided with product shipment.