Product Information Sheet for NR-9538

West Nile Virus, Bird 114

Catalog No. NR-9538

For research use only. Not for human use.

**Contributor:**
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**Product Description:**

**Virus Classification:** Flaviviridae, Flavivirus  
**Agent:** West Nile Virus (WNV)  
**Strain/Isolate:** Bird 114  
**Genotype:** WN02  
**Original Source:** Isolated on June 10, 2002 from the brain of a dead blue jay (Cyanocitta cristata) collected in Harris County near Houston, Texas

WNV is an arthropod-borne virus which circulates in natural transmission cycles between primarily mosquitoes (Culex species) and birds, with humans as incidental hosts. The virus is indigenous to Africa, Asia, Australia, and Europe, and has recently caused large epidemics in Romania, Russia, and Israel. WNV was recently introduced to North America, where it was first detected in 1999 during an epidemic of meningoencephalitis in New York City. Most human WNV infections are asymptomatic but clinical infections can range in severity from uncomplicated West Nile fever to fatal meningoencephalitis; the incidence of severe neuroinvasive disease and death increase with age. There is no established WNV-specific treatment or licensed vaccine for humans currently available. Prevention depends on organised, sustained vector mosquito control and public education.

**Material Provided:**
Each vial contains approximately 1 mL of cell lysate and supernatant from African green monkey cells (Vero; ATCC® CCL-81™) infected with WNV, Bird 114.

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**
NR-9538 was packaged aseptically in screw-capped plastic cryovials. The product is preserved frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**

**Host:** Vero cells (ATCC® CCL-81™)  
**Growth Medium:** Minimum Essential Medium supplemented with 2% irradiated fetal bovine serum, or equivalent (lot-specific details are on the Certificate of Analysis)  
**Infection:** Cells should be 80-90% confluent (not 100% confluent)  
**Incubation:** 4 to 8 days at 37°C and 5% CO₂  
**Cytopathic Effect:** Cell rounding and sloughing

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: West Nile Virus, Bird 114, NR-9538."

**Biosafety Level:** 3


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