



NAM-w PCR Test



## Vector Smart™ North American Mosquito West

Multiplex West Nile/Western Equine Encephalitis/  
St Louis Encephalitis

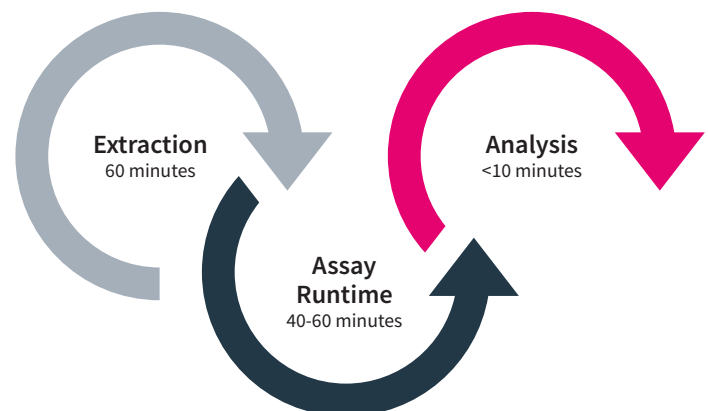
### The Vector Smart™ North American Mosquito

**West (NAM-w) test** is a real-time PCR multiplex test intended to detect West Nile virus (WNV), St. Louis encephalitis virus (SLEV), and Western equine encephalitis virus (WEEV) through extracted ribonucleic acid (RNA) in mosquito samples.

The NAM-w test kit has been tested with QIAamp® Viral RNA Mini Extraction Kit (Qiagen), MagMax™ -96 Viral RNA Isolation Kit (Thermo Fisher Scientific), and the sbeadex livestock kit (LGC) and run using the CoDx Box™ Thermal Cycler. Triton™ X-100 (Sigma-Aldrich) was used to inactivate viruses.

### Vector Smart™ NAM-w

- Contains a simple and streamlined work flow
- Includes internal control to verify sample quality
- Includes positive control
- Produces results that are easy to interpret
- Compatible with multiple platforms & sample extraction techniques



## About Vector Smart™ NAM-w

Application	Qualitative Multiplex PCR test, detection for WNV, SLEV and WEEV		
	WNV†	SLEV†	WEEV†
Limit of detection (copies/ml)	3.84x10 <sup>4</sup>	3.39x10 <sup>3</sup>	2.88x10 <sup>4</sup>
Sensitivity	96.92%	99.5%	100%
Specificity	100%	100%	100%
Sample type	Mosquitoes		
Detection details	Detection and differentiation of West Nile virus (WNV), St. Louis encephalitis virus (SLEV), and Western equine encephalitis virus (WEEV).		
Time to detection	63-90 minutes, depending on the machine used		
Thermal cyclers compatibility	Most qPCR systems capable of the following channel compatibilities: FAM CF560(VIC) CF610(ROX) Quasar670(Cy5)		
Extraction kit compatibility	QIAamp® Viral RNA Mini Kit, MagMax™ -96 Viral RNA Isolation Kit, and sbeadex livestock kit.		

† Results based on 1592 samples run on the CoDx Box™.

The NAM-w test kit showed no cross-reactivity with Japanese encephalitis virus (JEV), Yellow fever virus (YFV), Zika virus (ZIKV), dengue virus (DENV) types 1-4, chikungunya (CHIKV), Eastern equine encephalitis (EEEV), Nhumirim virus (NHUV), Jamestown Canyon virus (JCV), La Crosse encephalitis virus (LACV), and Hepatitis C virus (HCV) through wet-test or insilico analysis.

## Each North American Mosquito West (NAM-w) test kit includes:

- 1x500µL (100rxns) NAM-w Master Mix
- 1x500µL (100rxns) NAM-w Positive Control
- 1x500µL (100rxns) NAM-w Extraction Control
- 1x500µL (100rxns) NAM-w Nuclease Free Water

## Ordering Information:

Product Name	Product ID
Co-Dx Box™ Thermal Cycler	Request Quote
North American Mosquito West Test (NAM-w)	NAMw-K-001