

NANOPARTICLE TRACKING ANALYSIS

Resolving Sub-70nm Particles Where Competitors Fell Short

How Envision gave a leading EV research lab the data they needed – when every other instrument left them blind.

CLIENT
EV Laboratory, UNC

LOCATION
Durham, NC

APPLICATION
Exosomes & Viral Particles

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<70nm

Detection range competitors
couldn't resolve

1×

Single run to resolve
all subpopulations

100%

Data recovery vs.
0% on competing NTA

THE CHALLENGE

A high-output EV research lab at UNC needed reliable detection of nanoparticles below 70nm – a range where most instruments simply don't perform. Their work with exosomes and viral particles depended on the sub-70nm fraction. Without it, the data was incomplete and effectively unusable.

WHAT THE COMPETITION MISSED

A competing NTA vendor claimed 30nm resolution. In a live demo on a mixed EV and viral particle sample:

Competitor:
Only 100nm exosomes – sub-70nm invisible

Envision:
All subpopulations resolved, incl. sub-70nm

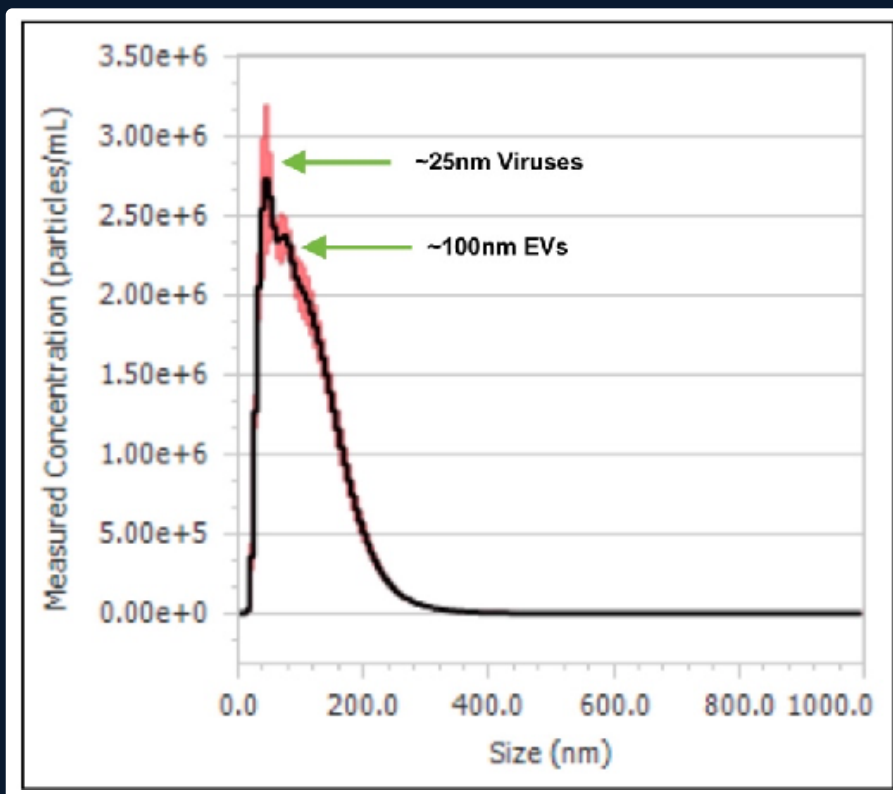
THE RESULT

The same mixed sample run on Envision showed distinct subpopulations resolved across the full size range – including well below 70nm – from a single measurement.

"The difference wasn't incremental – it was the difference between usable data and no data."

PARTICLE SIZE DISTRIBUTION – MIXED EV & VIRAL SAMPLE

Envision Data



Sub-70nm particles – invisible to competing NTA – clearly resolved by Envision in a single run

READY TO SEE IT FOR YOURSELF?

See Envision Resolve What Others Can't

Schedule a live demo with your own samples. Our scientists show you what Envision sees – and what you may be missing.

Request a Demo

Schedule a Call

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