

Vaxarray Pneumococcal Assay Capabilities

Simultaneously Measure Up To 50 Pneumococcal Polysaccharide Serotypes

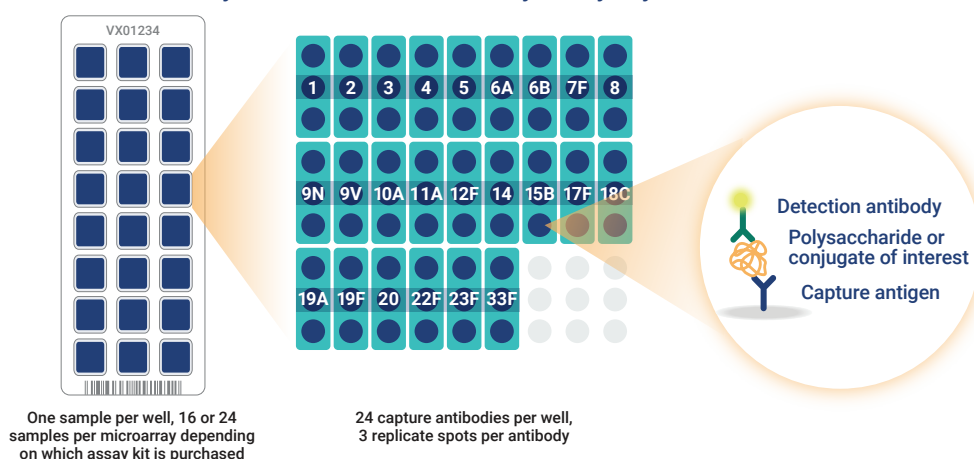
Measure Multiplexed Identity, Quantity, and Stability in One Assay

Pneumococcal vaccine development and biosurveillance testing remain essential for improving vaccine coverage, protecting high-risk populations, and monitoring the disease prevalence, emerging and region-specific serotypes.

InDevR offers both off-the-shelf and custom assay kits that can analyze up to 50 serotypes in a single 30-minute microarray, enabling significant time, throughput, and labor savings over traditional singleplex ELISA assays. With the ready-to-go kits, 24 validated, high-priority pneumococcal polysaccharide serotypes present in both on-market and in-development pneumococcal vaccines can be analyzed. Or if you need a custom solution for your vaccine development, our microarrays can be tailored to any serotype constellation you require and are available in an automation-friendly format.

- **High-efficiency testing** – Simultaneously measure identification and quantitation in a single assay
- **Fast multiplex assay** – Results for all serotypes in less than 30 minutes
- **Simplify sample analysis** – Flexibility to test both pneumococcal capsular polysaccharide samples as well as conjugated vaccine samples in a single assay
- **Speed up vaccine development** – Eliminate the requirement to bridge different analytical techniques between drug substance and drug product by using one assay throughout manufacturing and release testing
- **Standardize analysis** – Off-the-shelf kit utilizes 24 high-quality monoclonal antibodies for the following serotypes: 1, 2, 3, 4, 5, 6A, 6B, 7F, 8, 9N, 9V, 10A, 11A, 12F, 14, 15B, 17F, 18C, 19A, 19F, 20, 22F, 23F, 33F
- **Customize PCV kits** – Add, remove or replace serotypes from the off-the-shelf kit that work best with your vaccine product
- **High specificity and sensitivity** – No off-target binding enables quantification in multivalent samples with a dynamic range from low ng/mL to low µg/mL

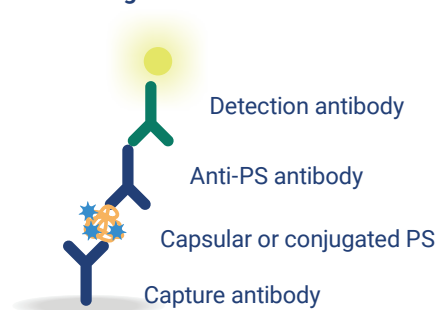
VaxArray Pneumococcal Microarray Assay Layout



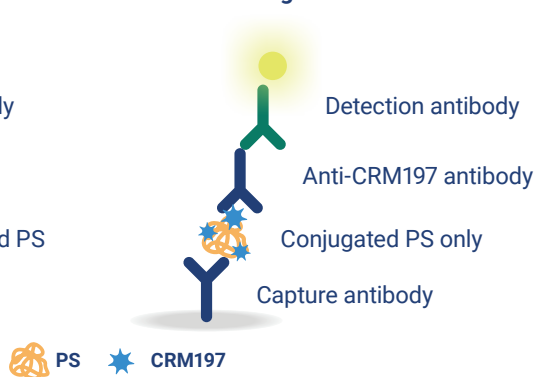
Single instrument, multiple detection options

- **Capsular Polysaccharide (CPS) labeling** – Capture and label the PS in CPS and conjugate vaccines. PS label is available as an optimized mix of 24 serotypes or can be custom-tailored.
- **Conjugate-specific labeling** – Capture the PS and label the carrier protein CRM197 in conjugate vaccines.

PS Labeling



CRM197 Labeling



One Assay for Manufacturing, Release, and Stability Testing

- Confirm identity after polysaccharide and conjugate purification
- Verify serotype identity quickly and efficiently after shipment and receipt between sites
- Quantify polysaccharides and conjugates in monovalent and multivalent samples
- Measure change in degree of adjuvant adsorption over time
- Directly measure conjugate concentration via a unique CRM197 labeling method as a unique direct measure of stability

Pneumococcal Serology

- Quantification of serum antibodies in support of preclinical and clinical studies and serosurveillance applications
- Serological assays can be customized to utilize your own vaccine pneumococcal polysaccharides or using commercially-available materials

Ordering

Product	Quantity	Cat. Number
VaxArray Instrument	1 System	VX-6001
VaxArray Pneumococcal Assay Kit v2.0	2 Slides	VXPN-9001
Custom Pneumococcal Assay Kit	Contact InDevR's Expert Services to learn more.	



Explore Our Solutions at [InDevR.com](https://www.indevr.com) | Contact Us at sales@indevr.com