



Phadia™ 2500+ is ideal for labs with a throughput requirement of up to 480 test results per hour.

## Phadia 2500+. Made to maximize.

Capacity and productivity that meet the growing demands for laboratories to aid in the diagnosis of allergic and autoimmune diseases.

Clinical needs for allergic and autoimmune disease diagnosis are growing every year. The accelerating incidence<sup>1,2,3</sup> is putting new pressures on diagnostic laboratories. The Phadia 2500+ group of instruments\* provides the throughput to meet these demands with reliable and accurate results. Two process lines run in parallel to maximize throughput while maintaining the

highest quality. The three configuration options give you flexibility to order your instrument to fit your assay needs whether for ImmunoCAP™ only, EliA™ only, or both at the same time. Phadia 2500+ delivers quantitative results for clinically relevant antibodies, giving you confidence in your analytical results and aiding the clinical diagnosis without reruns.

\* The Phadia 2500+ comprises the following instruments: Phadia 2500, Phadia 2500 E and Phadia 2500EE.

## Efficiency

Maximize your productivity and reduce costs by running large volumes of diagnostic allergy and autoimmunity tests in parallel on Phadia 2500+, or double the capacity for either ImmunoCAP or EliA by choosing an instrument configuration with two processing lines that run the same test type. Tests for every patient can be run from a single sample tube. Reagents and tests are stored onboard, and calibration curves are shared across multiple runs and can be used for 28 days. The automatic rinse and shutdown of the instrument at the end of the day and the possibility to set an automated start-up in the morning maximize workflow efficiency.

- Secure up to 480 results per hour for ImmunoCAP and up to 300 results per hour for EliA
- Provide 10,000 or more test results each week to waiting clinicians and patients
- Use curve controls during runs to support monthly calibration

Phadia 2500+ is powered by Phadia™ Prime software. Phadia Prime makes it easy to manage assay runs, test requests and results. It also provides automated, real-time management of reagent inventory. Laboratory information system (LIS) connectivity ensures fast and secure transfer of sample data and test results.

## Flexibility

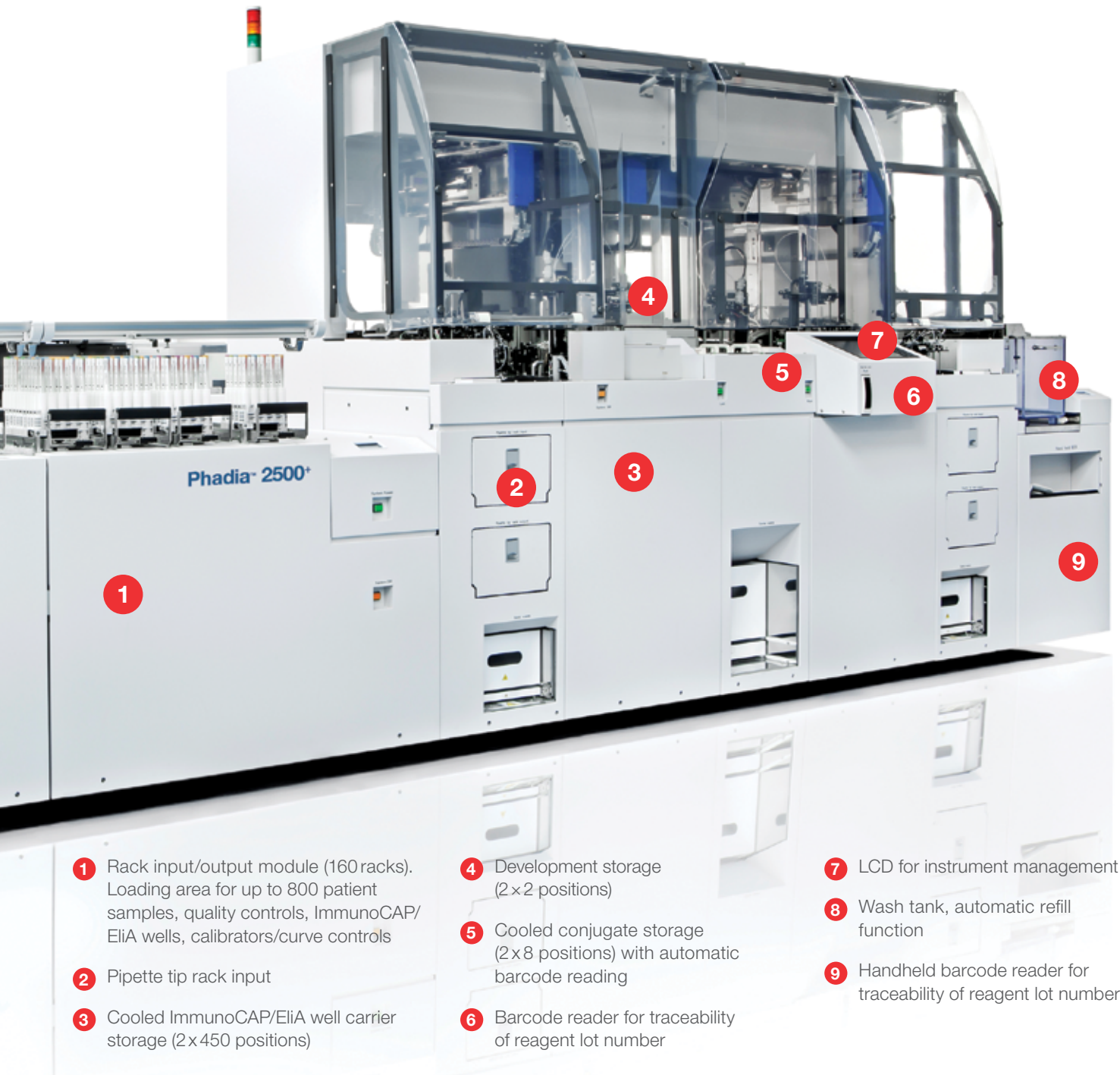
With two process lines and continuous random access, Phadia 2500+ ensures you have the flexibility you need to run any combination of tests on each sample and can add samples during run. You are able to support the clinical diagnosis of both allergy and common autoimmunity diseases with the broadest portfolio of clinically relevant allergens, allergen components, and autoimmunity markers. To meet your specific demands, the automatic reflex testing is user configurable.

- Perform up to 650 different ImmunoCAP tests for allergen sensitization
- Perform up to 50 EliA tests to aid in the diagnosis of autoimmune disease

## Confidence

The “plus” sign in the logo of Phadia 2500+ is the mark of our latest advancements in reliability. Based on field feedback, certain areas of hardware and software have been upgraded to make an impact on uptime, while maintaining the same excellent assay performance. Phadia 2500+ gives you the confidence that you expect from all Phadia Laboratory Systems. Standardized and reproducible results that comply with the highest quality standards are delivered. Join the Quality Club community and access monthly reports to compare your laboratory's performance with others worldwide, helping you to monitor and maintain high standards and ensure that your lab delivers the same quality results month after month. Connect to the Phadia LabCommunity application and experience the advantages of remote troubleshooting and preventive service actions.





- 1** Rack input/output module (160 racks). Loading area for up to 800 patient samples, quality controls, ImmunoCAP/EliA wells, calibrators/curve controls
- 2** Pipette tip rack input
- 3** Cooled ImmunoCAP/EliA well carrier storage (2x 450 positions)
- 4** Development storage (2x 2 positions)
- 5** Cooled conjugate storage (2x 8 positions) with automatic barcode reading
- 6** Barcode reader for traceability of reagent lot number
- 7** LCD for instrument management
- 8** Wash tank, automatic refill function
- 9** Handheld barcode reader for traceability of reagent lot number

### Performance specifications

Instrument configurations	Phadia 2500: 2 process lines for ImmunoCAP Phadia 2500E: 1 process line for ImmunoCAP, 1 process line for EliA Phadia 2500EE: 2 process lines for EliA
Automation	Automated dispensing, processing and measuring Full traceability of samples and reagent
Peak capacity	ImmunoCAP: 240 results/hour and per process line EliA: 150 results/hour and per process line
Maximum number of loaded samples	800
Software	Phadia 2500/5000 instrument software Phadia Prime software
Connectivity	Laboratory information system (LIS) Phadia Lab Community Phadia Prime cluster
Sample dilutions	For EliA
Reflex testing	Yes
Onboard carrier storage	Max. 900 carriers at 2-8°C
Onboard reagent storage	Yes
Calibration curve stability	28 days
Remote troubleshooting and support	Yes (via Phadia Lab Community)

# Phadia 2500<sup>+</sup>. Made to maximize.

Phadia 2500<sup>+</sup> is made to maximize, and enables your lab to deliver large numbers of test results with the highest quality. As your lab operation grows, easily incorporate other Phadia instruments to your existing workflow to meet new demands. Join us and enjoy all the benefits of being a member of the world's largest family for testing within the allergy and automimmunity disease areas.

Operational specifications	
Description	Random access immunoassay systems
Environmental requirements (ambient)	Operational temperature: 18-32 °C Air humidity: 10-85% relative humidity, non-condensing Maximum altitude: 2000 m Allowed temperature change: 2 °C/hour
Sound level	≤ 65 dBA at 1 m distance
Dimensions (H x W x D)	195 x 411 x 135 cm 77 x 162 x 53 in
Space requirements (including service area)	19 m <sup>2</sup>
Weight	2000 kg / 4409 lb
Electrical requirements	200V, 208V, 230V, 240V ±10% 50/60Hz
Power consumption	5 kVA
Processing chamber temperature	37 °C
Barcode symbology	Code 39, Code 93, Code 128, Codabar (NW-7), COOP 2 of 5*, EAN-8, Industrial 2 of 5*, Interleave 2–5
Sample barcodes	Length: ≤ 70 mm Density: ≥ 10 mil
Sample tube dimension for sample rack w/ 5 positions	Height 70–105 mm Outer diameter 10–16 mm

## References

1. BlueCross BlueShield (2018) Childhood Allergies in America. <https://www.bcbs.com/the-health-of-america/reports/childhood-allergies-america>
2. European Academy of Allergy and Clinical Immunology (2018) Advocacy Manifesto: Tackling the Allergy Crisis in Europe – Concerted Policy Action Needed. [http://www.eaaci.org/documents/EAACI\\_Advocacy\\_Manifesto.pdf](http://www.eaaci.org/documents/EAACI_Advocacy_Manifesto.pdf)
3. Lerner A et al. (2015) The World Incidence and Prevalence of Autoimmune Diseases is Increasing. *Internat J Celiac Dis* 3:151-155. doi: 10.12691/ijcd-3-4-8.

Find out more about Phadia 2500<sup>+</sup> at:  
**[thermofisher.com/phadia2500](http://thermofisher.com/phadia2500)**

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SCIENTIFIC

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