

## The Agile R100 personal assay system for label-free kinetic binding data

What could you do with the ability to **run label-free kinetic binding assays in complex samples** from the comfort of your bench? No more finding and coordinating with an expensive CRO just to wait weeks to receive results. Now you can get information-rich data to **validate hits accurately** and reduce the risk of costly mistakes further down the line. The single-sample assay Agile R100 is revolutionizing pharmaceutical and biotherapeutics development, providing an easy-to-use, cost-effective option for **small molecule and protein researchers** who want to save time and resources.



**Agile™ R100**  
Achieve more. *Starting now*

### At Last, Sensitive Results

With an unprecedented **11-log dynamic range**, you can use a single platform to measure and develop weakly-binding fragments into high-affinity compounds with accuracy and reliability.

### With Just a 10 µL Drop of Sample...

You can get more data from less material. Agile R100 uses just 10 µL per measurement, helping you preserve precious reagents and resources and **reduce your cost to data**.

### Breakthrough Orthogonal Technique

Agile R100 uses **proprietary electrical technique** rather than an optical one, making it an excellent orthogonal option to validate your hits, especially when optical methods fail.

### Kick Labels to the Curb

In addition to increasing assay development time and cost, labels can interfere with the functional activity of a drug and produce misleading results. **Go label-free** and simplify your assay design to have confidence in your candidate selection.



### Easy to Use

If you can run an ELISA, then you can run Agile R100. Your sample is **applied directly to the sensor surface** via a pipettor, which eliminates the need to learn complicated system components and processes. Just take Agile R100 out of the box, plug it into a laptop, and you're ready to start.

### Sense in Complex Samples

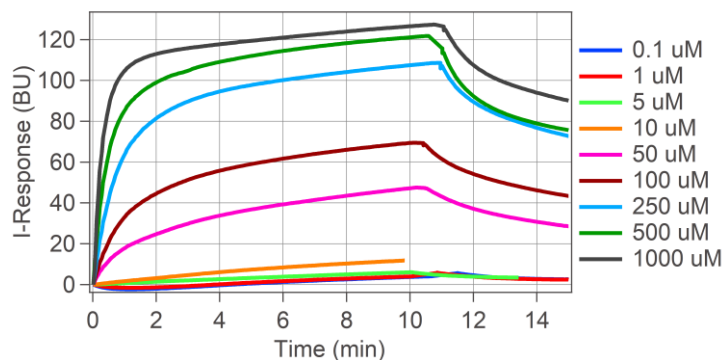
Agile R100 only registers a signal change when molecules bind to or dissociate from the immobilized target. Small molecules and proteins can be measured directly in **solvents such as DMSO (up to 10%), detergents, cell fractions, or tissue lysate**, significantly reducing sample prep time.

## Real-time kinetic binding data at your benchtop... and in your control

Kinetic characterization lets you understand more about your drug's potential residence time, toxicity, and selectivity, but previous systems are limited by low sensitivity and high sample requirements. Agile R100 is the first personal assay system that makes it easy to characterize lead compounds in a free afternoon and make confident decisions regarding your candidates.

### Agile R100 features:

- Measure biomolecules >10 Da, from fragments and small molecules to proteins and antibodies.
- 11-log dynamic range from fM to mM lets you work with a large range of concentrations on a single platform
- Functionalization with just 0.5 ng of material
- Rapid time to measurement enables kinetic characterization of unstable proteins
- Dissociation measurements provide off-rate ranking.
- Reusable biosensor chips deliver up to 10 measurements a chip.

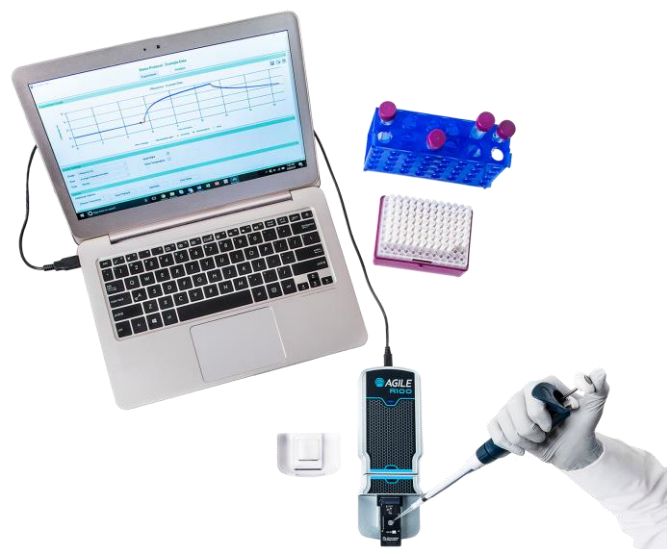


Overlay plot displays a full kinetic characterization using COOH Agile biosensors. A concentration series of small molecule SPD304 is measured against immobilized TNF $\alpha$ , a cell signaling protein used as a therapeutic target. These curves show the concentration dependence of the biomolecular interaction, and the evaluation software provides  $k_{on}$ ,  $k_{off}$ , and  $K_D$ .

## Agile Plus software makes it a snap

**Powerful, real-time Agile Plus software** makes running assays and data analysis easy. Designed to work seamlessly with Agile R100, it is straightforward to learn and use. **Preloaded protocols** let you quickly set up your assay and run an experiment. The intuitive interface **guides you through the process** and **automates the analysis** so you can get to information-rich data faster. The **real-time data** display lets you visualize interactions as they occur.

- **Real-time data for on-the-fly protocol changes.** Agile R100's single-sample format enables mid-experiment changes to assay protocol that is impossible on other label-free platforms.
- **Automated analysis** can be run at any time for instant understanding of your results.
- **Pre-set PDF reporting options** streamline data sharing.
- **Easy CSV data exporting** for additional analysis options on other software platforms.
- **No limit on software installation** for flexibility of use across computers.



## Contact us for a 30-day trial opportunity

We're here to help you achieve the kinetic binding data you need when you need it. Contact us to learn more!

### Trials and Order Requests

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www.nanomedicaldiagnostics.com/request-trial

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