



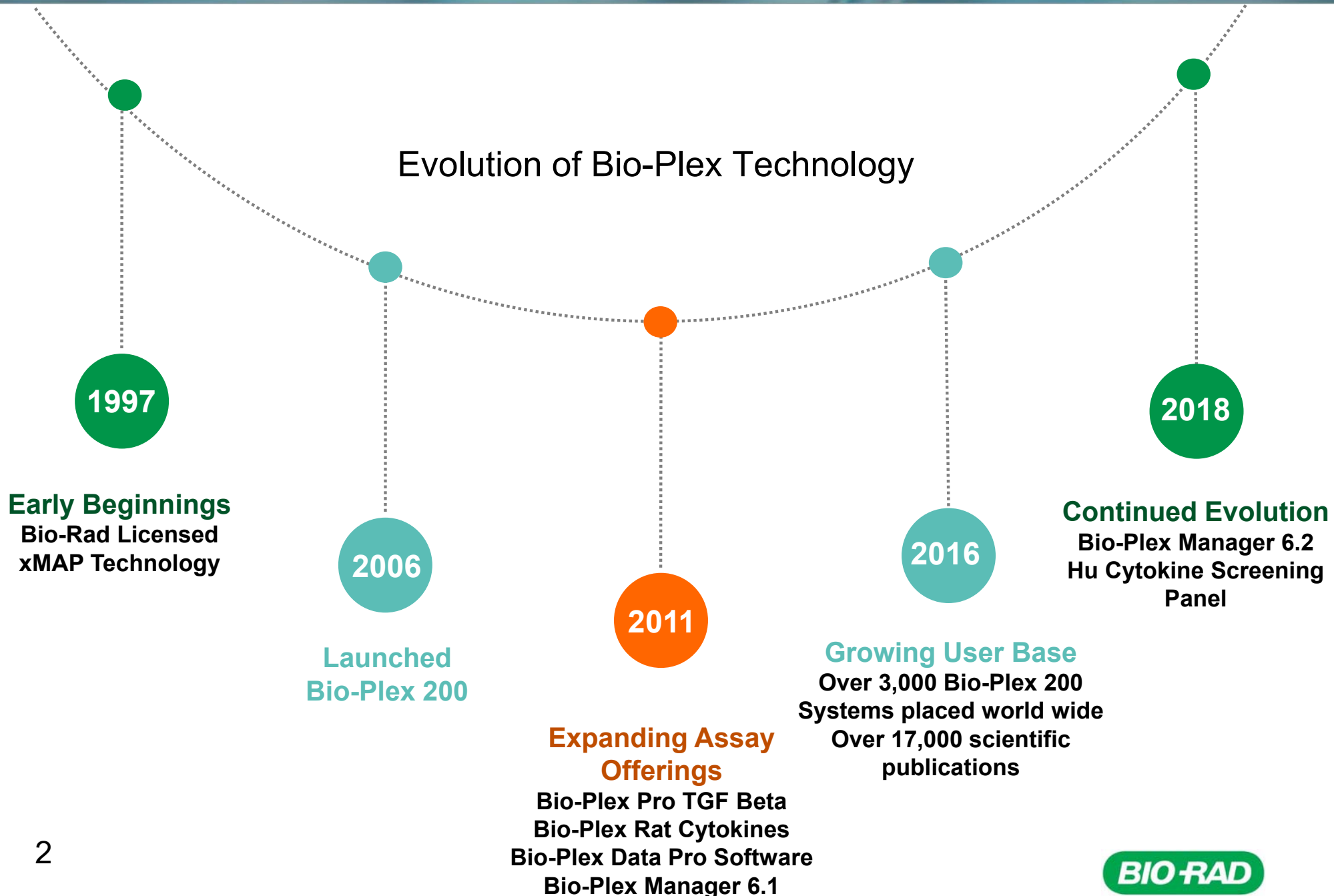
## Bio-Plex200 System overview



Kamol Rodyou  
Field and Application Specialist

# > 20 Years of Multiplex Assay Expertise

## Evolution of Bio-Plex Technology



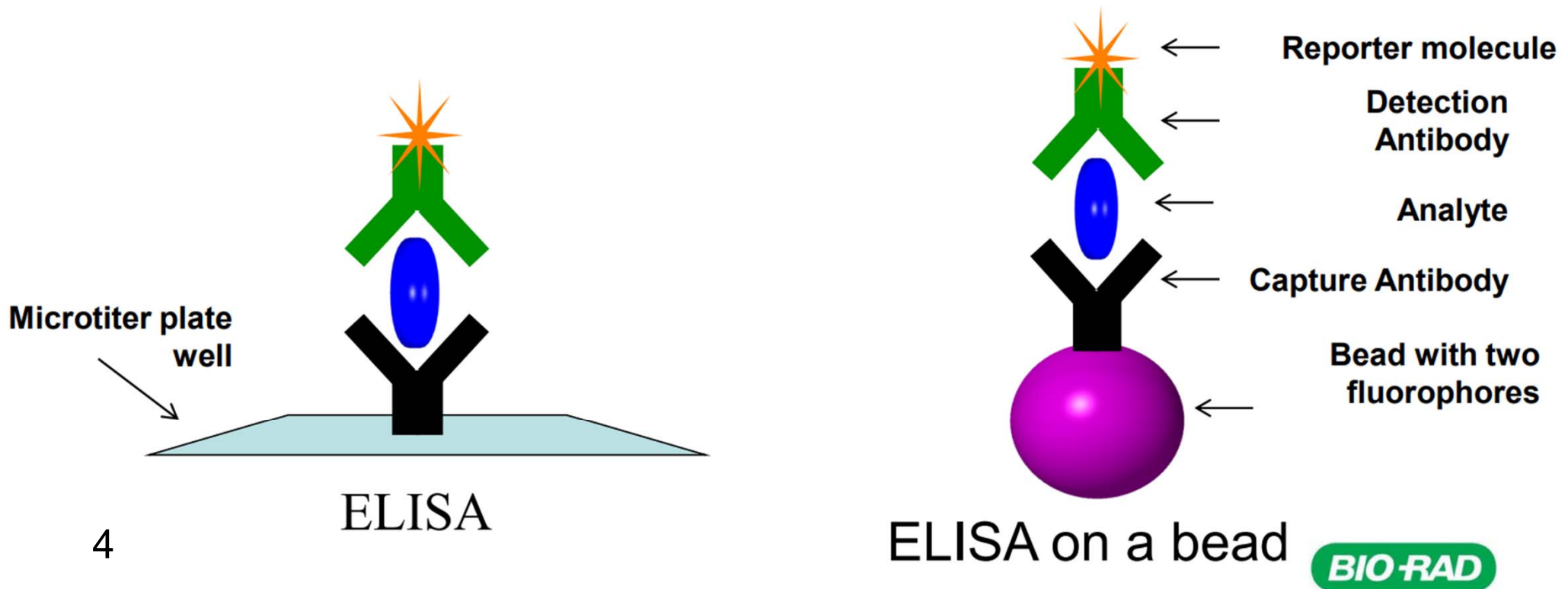
# Bio-Plex Core Technology

- xMAP® Multiplex suspension array technology - Luminex
- Microspheres or bead-based immunoassay – coupled with either DNA or protein capture reagent (antibody)
- Analytes are captured by specific biomolecular reaction on magnetic bead surface such as antigen-antibody interaction
- Assay results are quantified using a fluorescent reporter tag
- Simultaneous analysis of up to 100-500 different analytes in 96-well format



# Bio-Plex Core Technology

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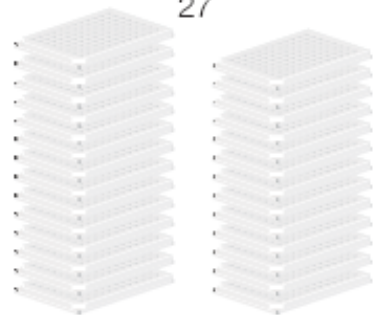



# Multiplexing Increases Throughput

How would you like to have 2,160 data points in one 96-well plate?

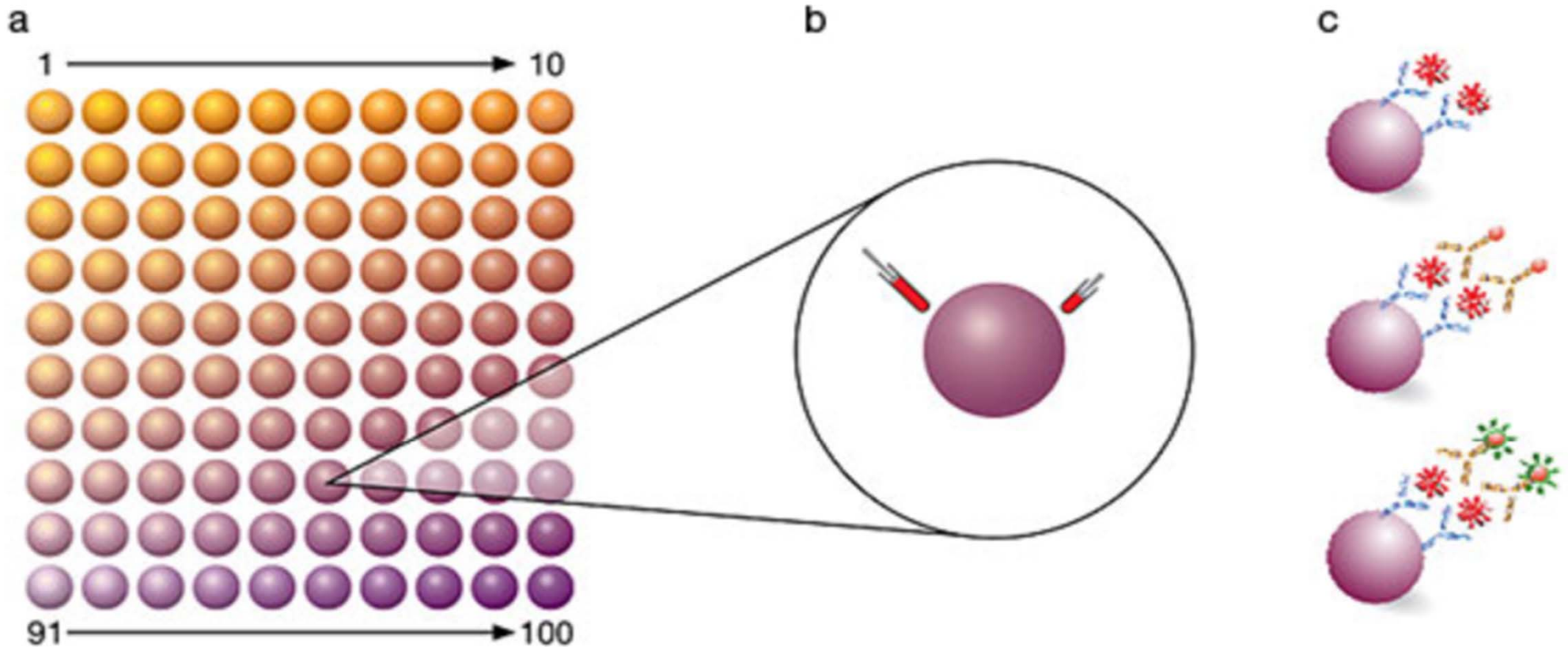
## The Power of the Bio-Plex System

Side-by-Side Comparison: Analyzing 27 Cytokines in 80 Samples

|                          | ELISA   | Bio-Plex   |
|--------------------------|---|--|
| Number of cytokines      | 27  | 27   |
| Number of samples        | 80  | 80   |
| Total data points        | 2,160   | 2,160  |
| Number of 96-well plates | 27<br> | 1<br> |
| Data points per plate    | 80  | 2,160  |
| Total time required      | >60 hr  | 3 hr   |
| Sample volume            | Serum or plasma, >1 ml*<br>Cell culture supernatant, >1 ml*                               | Serum or plasma, 12.5 µl<br>Cell culture supernatant, 50 µl                                |
| Assay range              | Serum or plasma, 2–3,000 pg/ml<br>Cell culture supernatant, 2–3,000 pg/ml                 | Serum or plasma, ~0.2–3,200 pg/ml<br>Cell culture supernatant, ~2–32,000 pg/ml             |

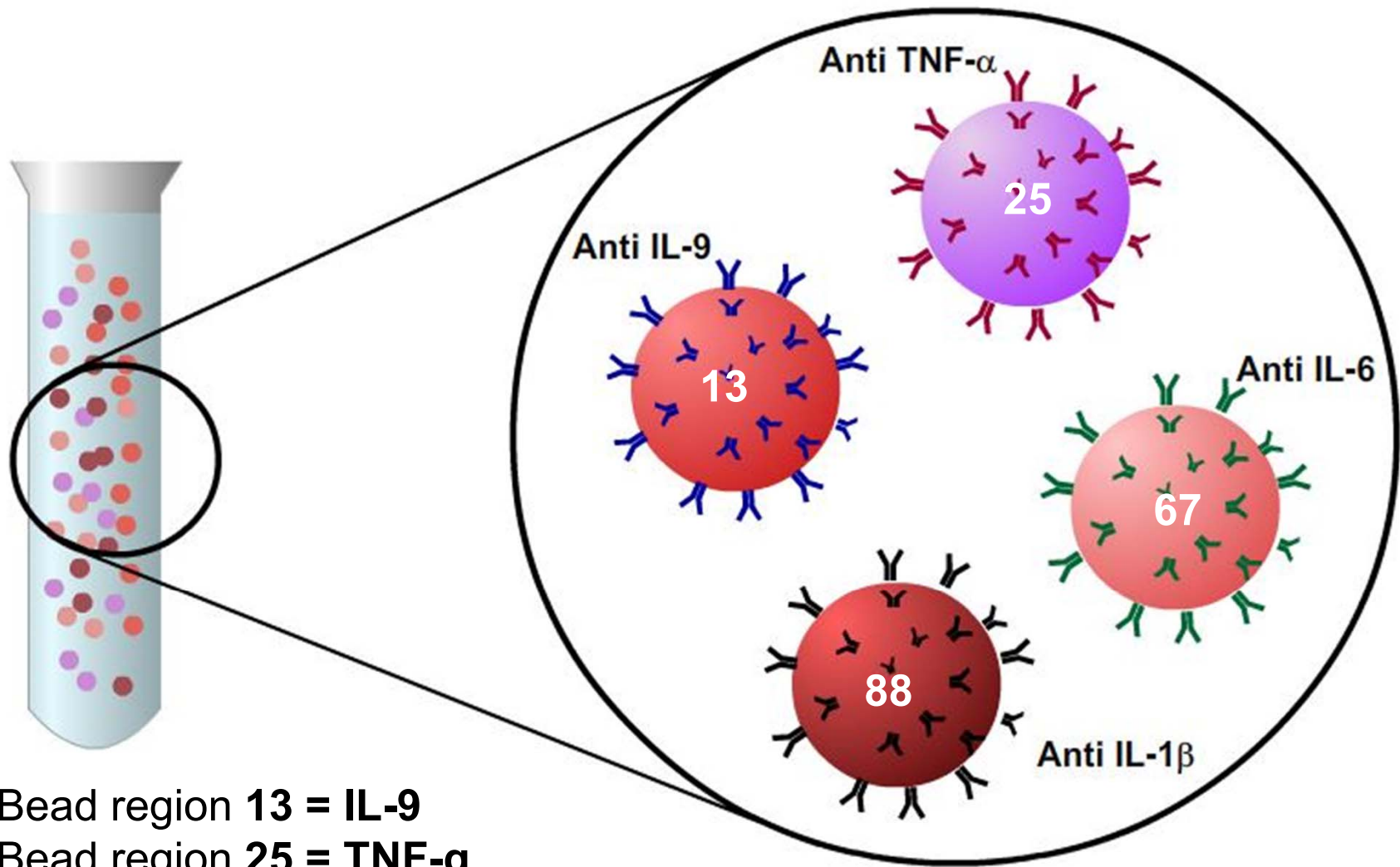
\* Based on 50 µl/well of sample.

# What is xMAP Luminex Technology?



- Beads are injected with 2 dyes, the ratio identifies the bead creating a bead map of up to 100 discernable beads
- The reporter molecule SAPE intensity gives intensity that can be translated into concentration

# What is xMAP Luminex Technology?



Bead region **13** = **IL-9**

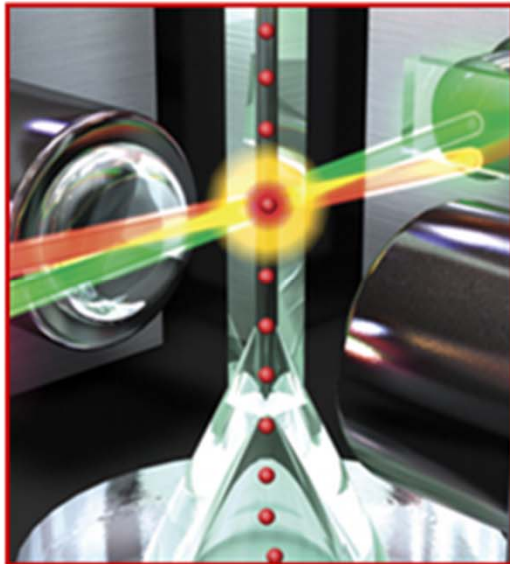
Bead region **25** = **TNF- $\alpha$**

Bead region **67** = **IL-6**

Bead region **88** = **IL-1 $\beta$**

# What is xMAP Luminex Technology?

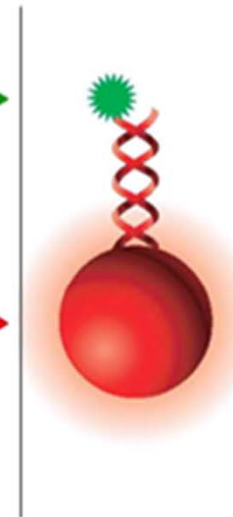
- Fluorescent signal reading system



Interrogate label  
with green laser  
(525 nm)



Interrogate  
bead with red  
laser (635 nm)



Quantify binding  
events (RP1)

Identify bead region  
based on internal dye  
concentrations (CL1  
& CL2)



# Bio-Plex system

## Bio-Plex Instruments

Bio-Plex Readers and Tools include the Bio-Plex 200 and Bio-Plex 3D Systems, Bio-Plex Pro Wash Station, and maintenance, calibration, verification, and validation kits.



## Bio-Plex Software

Bio-Plex Manager and Bio-Plex Data Pro Software make it simple to run instruments using xMAP technology and analyze multiplex data.



## Bio-Plex Standard Lot Data

Download data for released standard lots for import into Bio-Plex Manager Software.

## Bio-Plex Assays, Kits, and Reagents

Bio-Plex Multiplex immunoassays use Luminex magnetic beads for the quantification of over 450 biologically relevant targets: assays for inflammation, disease, cancer, cell signaling and growth, apoptosis, toxicity, and more. Choose assays in premade and custom configurations, or develop your own assays for new targets.



# Bio-Plex Assay configuration options



- **OTS (Off the shelf)**
  - All-in-one kits contain the largest number of analytes



- **Express – “You Mix”**
  - Configure custom analytes online, received individual vials of beads and detection plus reagent kit



- **x-Plex – “We Mix”**
  - Custom blend of analytes is built by Bio-Rad and undergoes lot-specific validation prior to shipment.



- **A la carte** – Individual components can be ordered to allow flexibility in day to day assay runs.

# Bio-Plex Pro human cytokine assays: Fixed panels

| Human Group I  | 8-Plex Panel (M50-000007A) | 17-Plex Panel (M50-00031YV) | 27-Plex Panel (M50-0KCAF0Y) | Th1/Th2 Panel (M50-00005L3) | Singleplex/x-Plex™ Bead Regions* |
|----------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------------|
| IL-1 $\beta$   |                            | ●                           | ●                           |                             | ● 39                             |
| IL-1ra         |                            |                             | ●                           |                             | ● 25                             |
| IL-2           | ●                          | ●                           | ●                           | ●                           | ● 38                             |
| IL-4           | ●                          | ●                           | ●                           | ●                           | ● 52                             |
| IL-5           |                            | ●                           | ●                           | ●                           | ● 33                             |
| IL-6           | ●                          | ●                           | ●                           |                             | ● 19                             |
| IL-7           |                            | ●                           | ●                           |                             | ● 74                             |
| IL-8           | ●                          | ●                           | ●                           |                             | ● 54                             |
| IL-9           |                            |                             | ●                           |                             | ● 77                             |
| IL-10          | ●                          | ●                           | ●                           | ●                           | ● 56                             |
| IL-12 (p70)    |                            | ●                           | ●                           | ●                           | ● 75                             |
| IL-13          |                            | ●                           | ●                           | ●                           | ● 51                             |
| IL-15          |                            |                             | ●                           |                             | ● 73                             |
| IL-17          |                            | ●                           | ●                           |                             | ● 76                             |
| Basic FGF      |                            |                             | ●                           |                             | ● 44                             |
| Eotaxin        |                            |                             | ●                           |                             | ● 43                             |
| G-CSF          |                            | ●                           | ●                           |                             | ● 57                             |
| GM-CSF         | ●                          | ●                           | ●                           | ●                           | ● 34                             |
| IFN- $\gamma$  | ●                          | ●                           | ●                           | ●                           | ● 21                             |
| IP-10          |                            |                             | ●                           |                             | ● 48                             |
| MCP-1 (MCAF)   |                            | ●                           | ●                           |                             | ● 53                             |
| MIP-1 $\alpha$ |                            |                             | ●                           |                             | ● 55                             |
| MIP-1 $\beta$  |                            | ●                           | ●                           |                             | ● 18                             |
| PDGF-BB        |                            |                             | ●                           |                             | ● 47                             |
| RANTES         |                            |                             | ●                           |                             | ● 37                             |
| TNF- $\alpha$  | ●                          | ●                           | ●                           | ●                           | ● 36                             |
| VEGF           |                            |                             | ●                           |                             | ● 45                             |

| Human Group II  | 21-Plex Panel plus ICAM-1 and VCAM-1 (MF0-005KMII) | Singleplex/x-Plex Bead Regions* |
|-----------------|--|---------------------------------|
| IL-1 $\alpha$   | ●  | ● 63                            |
| IL-2R $\alpha$  | ●  | ● 13                            |
| IL-3            | ●  | ● 64                            |
| IL-12 (p40)     | ●  | ● 28                            |
| IL-16           | ●  | ● 27                            |
| IL-18**         | ●  | ● 42                            |
| CTACK           | ●  | ● 72                            |
| GRO- $\alpha$   | ●  | ● 61                            |
| HGF             | ●  | ● 62                            |
| ICAM-1***       |  | ● 12                            |
| IFN- $\alpha$ 2 | ●  | ● 20                            |
| LIF             | ●  | ● 29                            |
| MCP-3           | ●  | ● 26                            |
| M-CSF           | ●  | ● 67                            |
| MIF             | ●  | ● 35                            |
| MIG             | ●  | ● 14                            |
| $\beta$ -NGF    | ●  | ● 46                            |
| SCF             | ●  | ● 65                            |
| SCGF- $\beta$   | ●  | ● 78                            |
| SDF-1 $\alpha$  | ●  | ● 22                            |
| TNF- $\beta$    | ●  | ● 30                            |
| TRAIL           | ●  | ● 66                            |
| VCAM-1***       |  | ● 15                            |

# Bio-Plex Pro™ Human Cytokine Screening Panel

Expand your biomarker screening capabilities, shorten your time to discovery, and gain confidence in your data with the Bio-Plex Pro Human Cytokine Screening Panel 48-Plex.

| Panel Contents  |                |       |                |
|-----------------|----------------|-------|----------------|
| CTACK           | IL-2           | IL-13 | MIP-1 $\alpha$ |
| Eotaxin         | IL-2R $\alpha$ | IL-15 | MIP-1 $\beta$  |
| FGF basic       | IL-3           | IL-16 | $\beta$ -NGF   |
| G-CSF           | IL-4           | IL-17 | PDGF-bb        |
| GM-CSF          | IL-5           | IL-18 | RANTES         |
| GRO- $\alpha$   | IL-6           | IP-10 | SCF            |
| HGF             | IL-7           | LIF   | SCGF- $\beta$  |
| IFN- $\alpha$ 2 | IL-8           | MCP-1 | SDF-1 $\alpha$ |
| IFN- $\gamma$   | IL-9           | MCP-3 | TNF- $\alpha$  |
| IL-1 $\alpha$   | IL-10          | M-CSF | TNF- $\beta$   |
| IL-1 $\beta$    | IL-12(p70)     | MIF   | TRAIL          |
| IL-1ra          | IL-12p40       | MIG   | VEGF           |

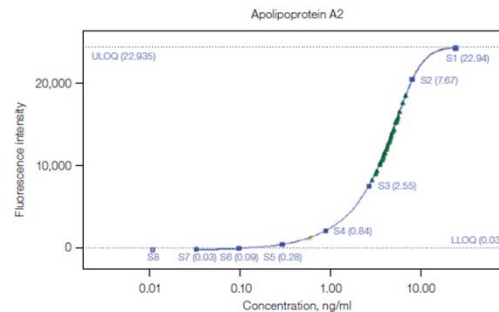
# Assay Performance

## Assay performance characteristics:

1. Accuracy
2. Assay Working Range
3. Sensitivity
4. Reproducibility
5. Linearity of dilution

Table 1. Representative performance characteristics.

| Analyte            | Assay Working Range, pg/ml <sup>a</sup> |             | Assay Sensitivity, pg/ml <sup>a</sup> | Assay Precision <sup>b</sup> |                 | 37 °C |
|--------------------|---|-------------|---------------------------------------|------------------------------|-----------------|-------|
|                    | LLOQ                                    | ULOQ        |                                       | LOD                          | Intra-Assay %CV |       |
| APRIL / TNFSF13    | 3,440.1                                 | 2,507,800.0 | 190.0                                 | 4.2                          | 17.3            |       |
| BAFF / TNFSF13B    | 91.5                                    | 200,008.9   | 34.7                                  | 1.6                          | 5.2             |       |
| sCD30 / TNFSF8     | 53.4                                    | 12,973.1    | 1.0                                   | 2.5                          | 5.0             |       |
| sCD163             | 1,338.7                                 | 975,916.6   | 16.8                                  | 4.2                          | 8.1             |       |
| Chitinase 3-like 1 | 36.7                                    | 80,275.3    | 10.3                                  | 2.5                          | 6.0             |       |
| gp130 / sIL-6Rβ    | 257.6                                   | 187,785.6   | 16.9                                  | 2.3                          | 5.9             |       |
| IFN-α2             | 3.1                                     | 6,702.2     | 0.7                                   | 3.6                          | 10.0            |       |
| IFN-β              | 0.9                                     | 1,872.8     | 2.0                                   | 3.0                          | 11.2            |       |
| IFN-γ              | 6.3                                     | 13,694.9    | 0.05                                  | 3.7                          | 7.3             |       |
| IL-2               | 1.2                                     | 2,662.7     | 0.1                                   | 3.3                          | 10.3            |       |
| sIL-6Rα            | 18.6                                    | 40,675.1    | 1.5                                   | 3.1                          | 3.2             |       |
| IL-8               | 4.5                                     | 9,762.7     | 2.7                                   | 4.5                          | 7.7             |       |
| IL-10              | 1.7                                     | 3,781.2     | 0.6                                   | 3.0                          | 8.5             |       |
| IL-11              | 0.1                                     | 207.1       | 0.05                                  | 3.6                          | 16.9            |       |
| IL-12 (p40)        | 5.5                                     | 12,039.9    | 5.6                                   | 3.5                          | 6.3             |       |
| IL-12 (p70)        | 1.3                                     | 908.0       | 0.1                                   | 3.5                          | 5.5             |       |
| IL-19              | 8.5                                     | 6,223.8     | 0.2                                   | 3.8                          | 8.4             |       |
| IL-20              | 2.7                                     | 5,809.9     | 3.6                                   | 2.3                          | 11.1            |       |
| IL-22              | 5.3                                     | 11,511.0    | 1.1                                   | 3.2                          | 6.5             |       |
| IL-26              | 8.2                                     | 5,969.7     | 1.2                                   | 3.1                          | 10.9            |       |
| IL-27 (p28)        | 3.8                                     | 8,397.0     | 0.1                                   | 3.0                          | 6.5             |       |
| IL-28A / IFN-λ2    | 10.7                                    | 7,813.5     | 1.8                                   | 4.3                          | 7.9             |       |
| IL-29 / IFN-λ1     | 5.2                                     | 11,431.4    | 1.6                                   | 4.4                          | 3.9             |       |
| IL-32              | 3.9                                     | 8,586.5     | 12.3                                  | 2.5                          | 8.8             |       |
| IL-34              | 61.9                                    | 45,142.7    | 51.9                                  | 3.2                          | 6.7             |       |
| IL-35              | 20.6                                    | 45,037.6    | 3.7                                   | 2.6                          | 9.1             |       |
| LIGHT / TNFSF14    | 14.8                                    | 3,585.3     | 10.2                                  | 3.1                          | 10.4            |       |
| MMP-1              | 106.8                                   | 233,460.8   | 33.7                                  | 4.8                          | 9.0             |       |



Acute Phase Response  
Cancer  
Cardiovascular Disease  
Diabetes  
Cytokines, Chemokines, and Growth Factors  
**Immunology/Inflammation**  
Immunoglobulin Isotyping  
Cell Signaling  
Toxicology

### Bio-Plex Pro™ Human Inflammation Assays

**MAGNETIC SEPARATION ENABLED**

APRIL / TNFSF13, BAFF / TNFSF13B, sCD30 / TNFSF8, sCD163, Chitinase 3-like 1, gp130 / sIL-6Rβ, IFN-α2, IFN-β, IFN-γ, IL-2, sIL-6Rα, IL-8, IL-10, IL-11, IL-12 (p40), IL-12 (p70), IL-19, IL-20, IL-22, IL-27 (p28), IL-28A / IFN-λ2, IL-29 / IFN-λ1, IL-32, IL-34, IL-35, LIGHT / TNFSF14, MMP-1, MMP-2, MMP-3, Osteocalcin, Osteopontin, Pentraxin-3, sTNF-R1, sTNF-R2, TSLP, TWEAK / TNFSF12

- Validated on plasma, serum, and cell culture samples
- Three distinct all-in-one multiplex kits
- Custom configurations
- Magnetic workflow

**High Performance Multiplex Assays for Immunology Research**

The Bio-Plex Pro Human Inflammation Assays comprise the most relevant set of 37 inflammation biomarkers in a single multiplex assay for the study of inflammation-associated diseases. Inflammation is the hallmark of allergies, infectious diseases, and wound healing. It is a leading cause of mortality worldwide and is indicated in eight major disease areas, including:

- Autoimmune diseases
- Cancer
- Cardiovascular diseases
- Infectious diseases
- Diabetic complications
- Metabolic disorder complications
- Neurological diseases
- Pulmonary diseases

**Assay Features**

- Unique and relevant mixture of targets, including key biomarkers from the TNF superfamily, Treg cytokines, IFN proteins, and matrix metalloproteinases (MMPs), in one panel
- Single-level quality control with kit lot-specific ranges
- Magnetic beads for simplified plate processing
- Single dilution factor for all targets
- Assay quick guide to get you started right away
- Compatible with Bio-Plex® 200, Bio-Plex® 3D, and Bio-Plex® MAGPIX™ Systems

**Rigorous Assay Validation**

All Bio-Plex Pro Assays undergo rigorous evaluation that includes the following parameters:

- Specificity (cross-reactivity)
- Accuracy (recovery) in key sample matrices
- Intra- and inter-assay precision
- Sensitivity (limit of detection, LOD)
- Assay working range (LLOQ/ULOQ)
- Linearity of dilution
- Parallelism and matrix effect
- Performance characteristics in real samples

**Assay Performance Definitions**

The following parameters are indicative of assay performance, as shown in Table 1.

**Assay working range** — the range of concentrations within which the assay is precise and accurate. Boundaries of the assay working range are defined by the lower limit of quantification (LLOQ) and the upper limit of quantification (ULOQ)

**Precision** — the coefficient of variation (%CV) at concentrations within the assay working range

**Accuracy (recovery)** — percentage of the observed concentration relative to the expected concentration of a known amount of analyte within the assay working range

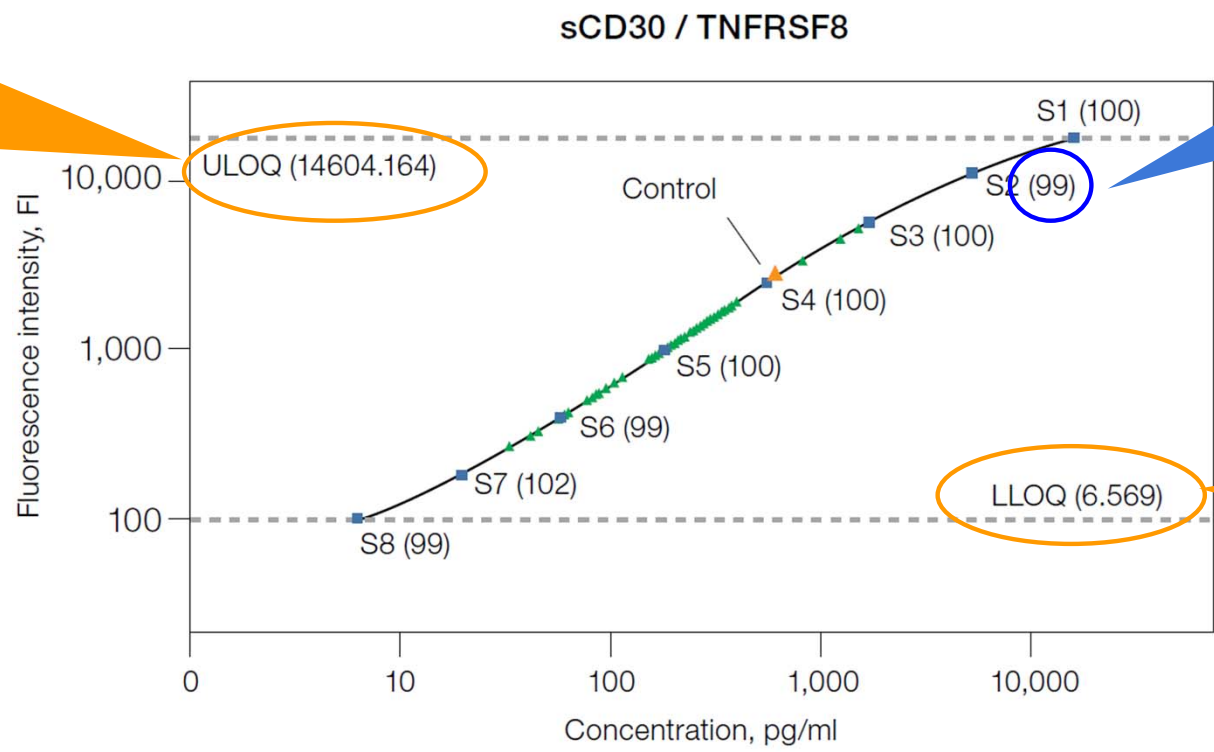
**Sensitivity (LOD)** — the concentration of analyte for which the fluorescence intensity signal is two standard deviations above the background signal

# Assay Performance

## Assay performance characteristics:

1. Accuracy
2. Assay Working Range
3. Sensitivity
4. Reproducibility
5. Linearity of Dilution

Upper  
Limit  
Of  
Quantitation



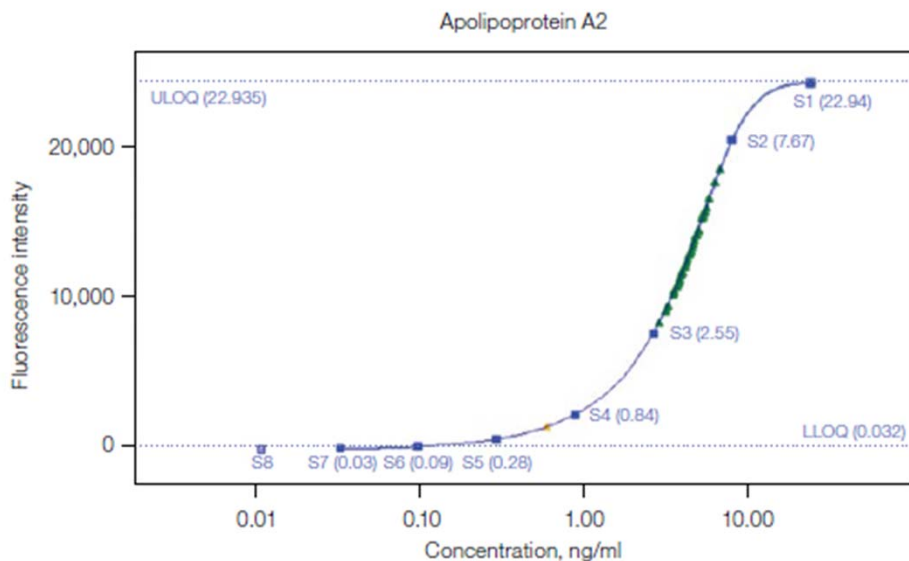
%  
Recovery

Lower  
Limit  
Of  
Quantitation

# Assay Performance

## Assay performance characteristics:

1. Accuracy
2. Assay Working Range
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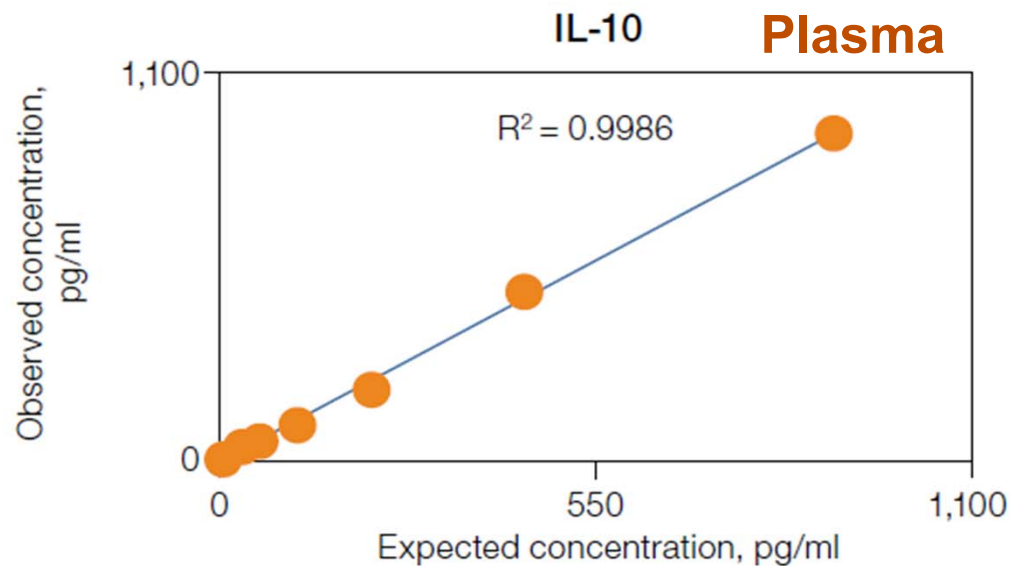
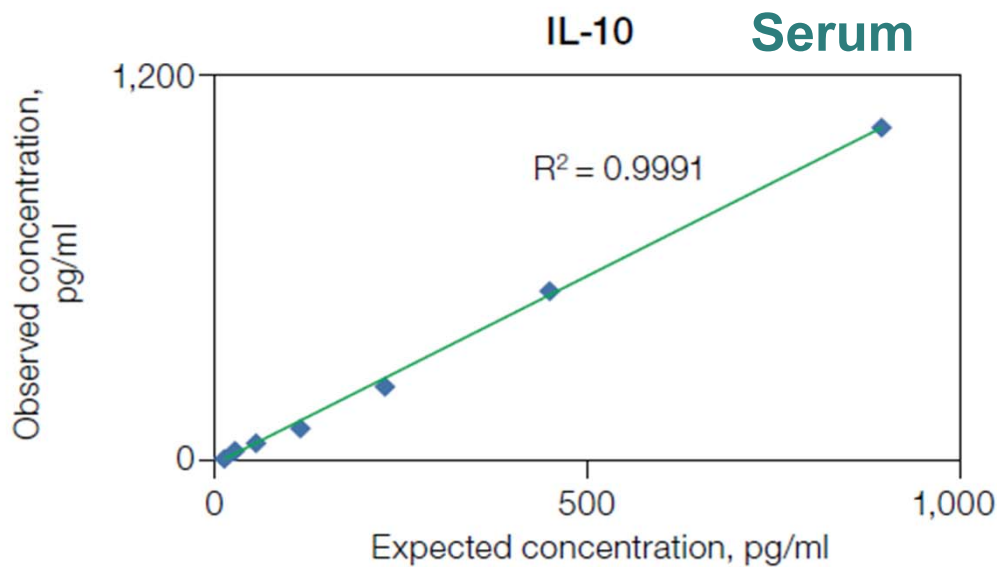
| Analyte            | Alternative Names | Bead Region | Assay Working Ranges, ng/ml |       | Assay Sensitivity, ng/ml | Assay Precision |                 |
|--------------------|-------------------|-------------|-----------------------------|-------|--------------------------|-----------------|-----------------|
|                    |                   |             | LLOQ*                       | ULOQ* | LOD**                    | Intra-Assay %CV | Inter-Assay %CV |
| Apolipoprotein A1  | Apo A1            | 22          | 0.059                       | 70    | 0.045                    | 4               | 7               |
| Apolipoprotein A2  | Apo A2            | 26          | 0.032                       | 36    | 0.016                    | 6               | 15              |
| Apolipoprotein B   | Apo B             | 44          | 0.41                        | 360   | 0.22                     | 6               | 12              |
| Apolipoprotein C1  | Apo C1            | 36          | 0.030                       | 17    | 0.0082                   | 3               | 5               |
| Apolipoprotein C3  | Apo C3            | 39          | 0.023                       | 28    | 0.013                    | 3               | 10              |
| Apolipoprotein D   | Apo D             | 12          | 0.055                       | 30    | 0.027                    | 3               | 9               |
| Apolipoprotein E   | Apo E             | 38          | 0.021                       | 12    | 0.012                    | 4               | 6               |
| Apolipoprotein H   | Apo H             | 75          | 0.15                        | 210   | 0.11                     | 3               | 8               |
| Apolipoprotein J   | Clusterin/Apo J   | 48          | 0.12                        | 170   | 0.078                    | 2               | 8               |
| C-reactive protein | CRP               | 78          | 0.019                       | 11    | 0.0087                   | 3               | 5               |



# Assay Performance

## Assay performance characteristics:

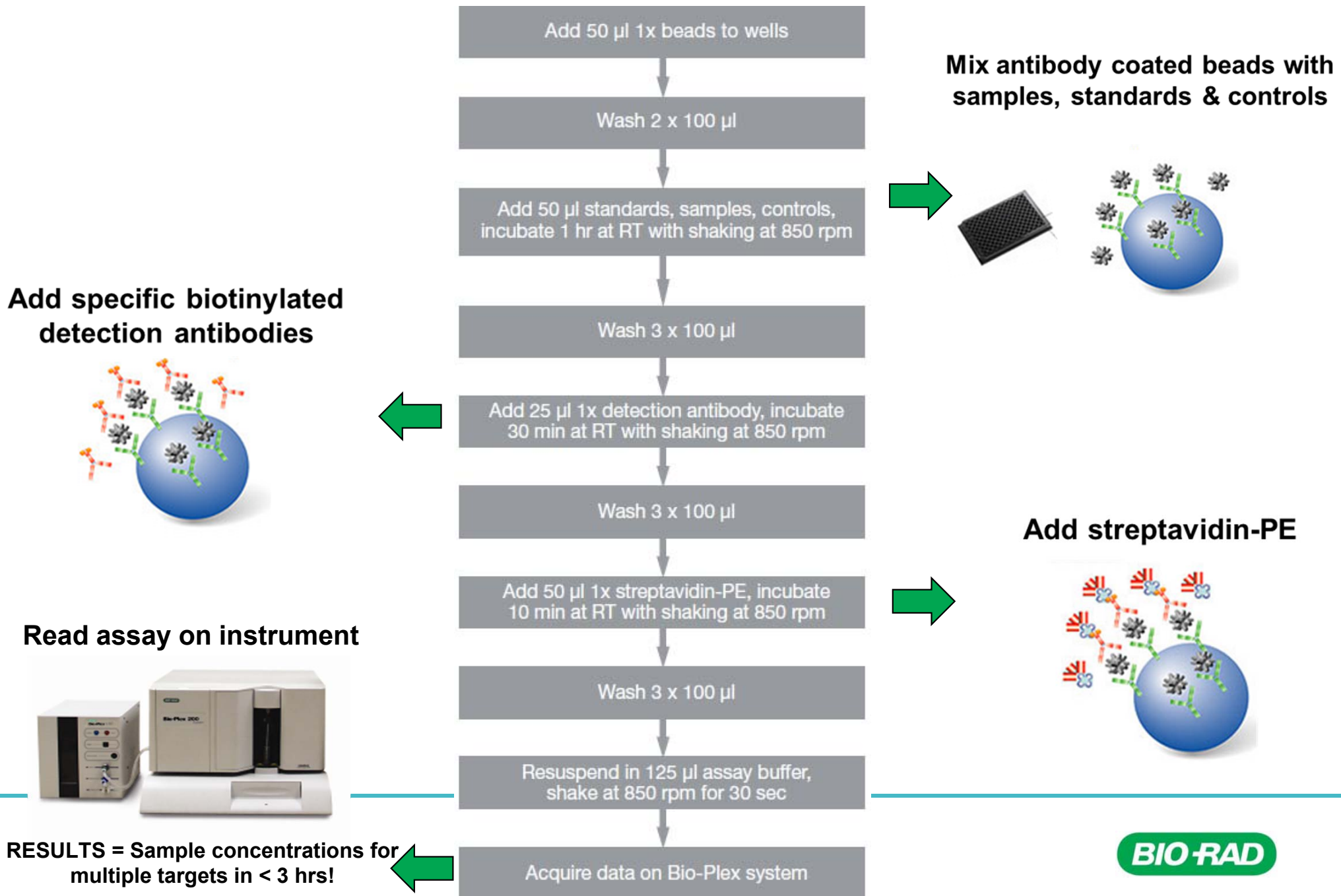
1. Accuracy
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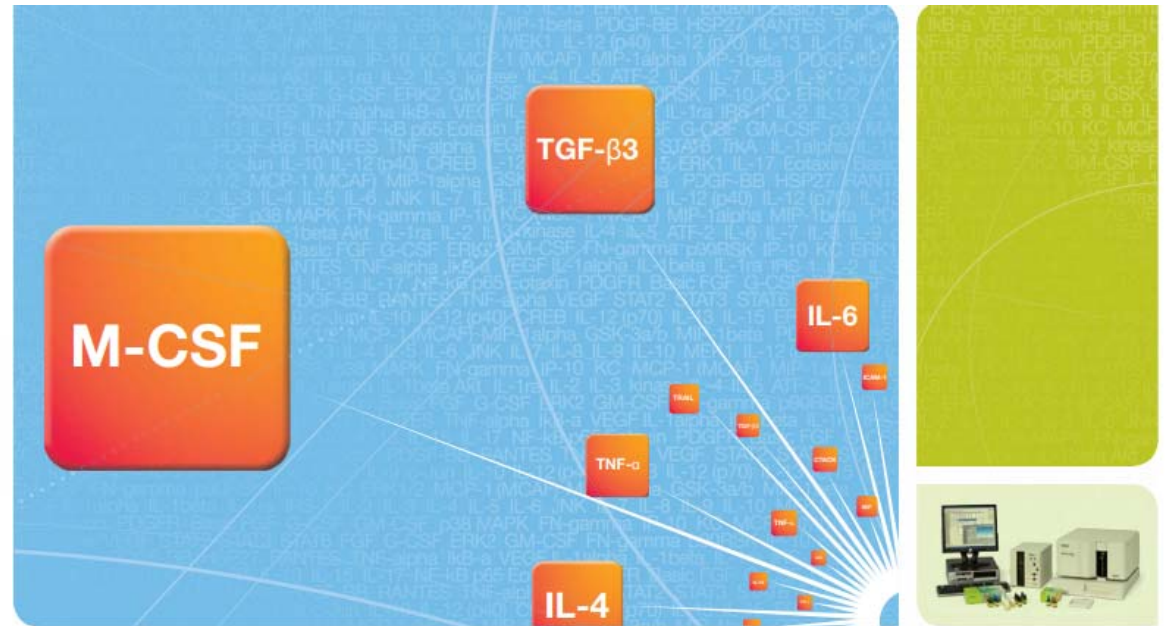
# Bio-Plex Assay Overview

- Instrument preparation
  - instrument warm up
  - instrument calibration
  - instrument validation
- Assay preparation
  - Standard and reagent
  - Sample preparation
  - Bead preparation
- Assay workflow
- Reading signal by **Bio-Plex200**
  - Protocol setup
- Result interpretation by **Bio-Plex Manager 6.2**

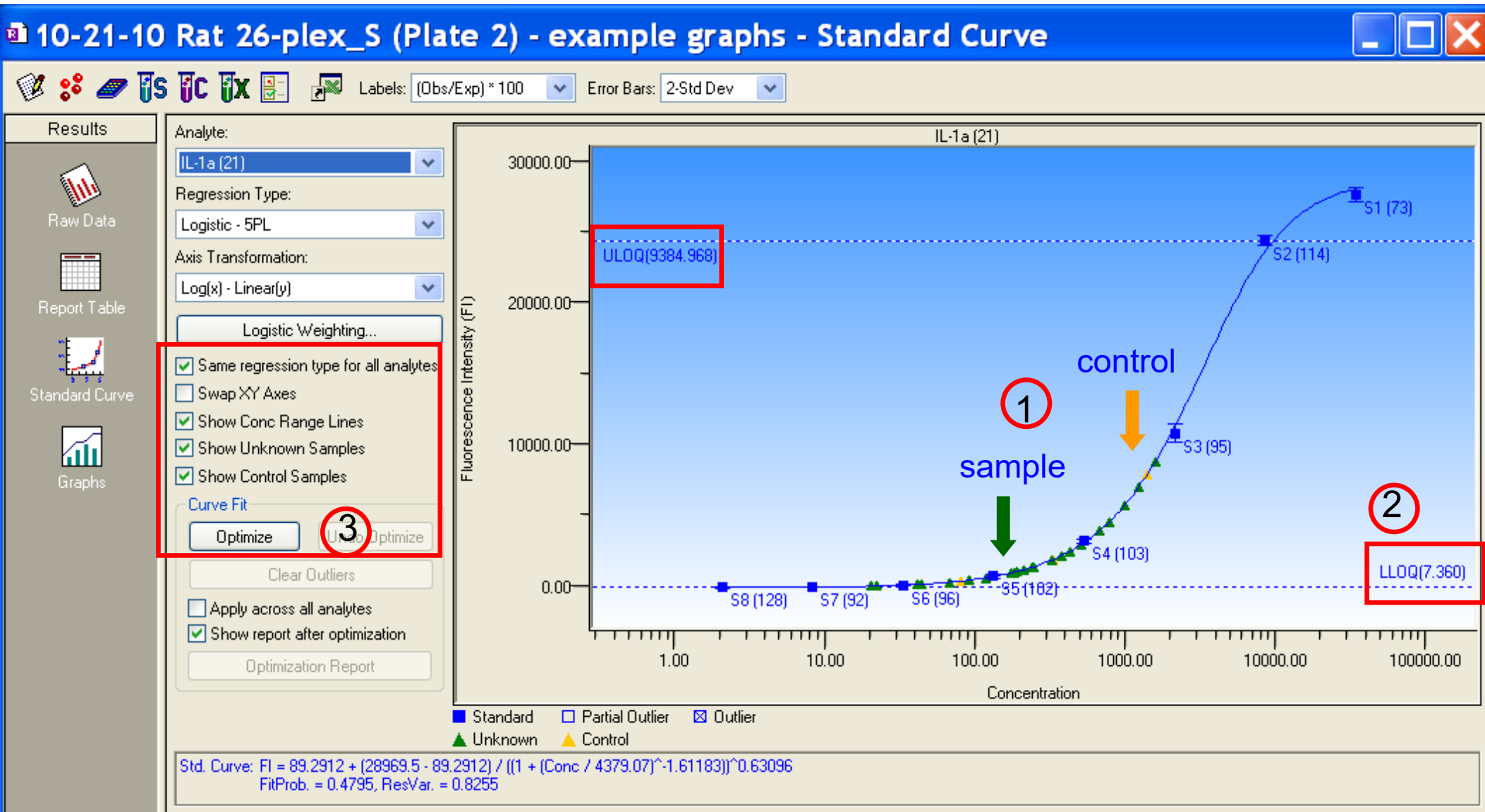
# Summary of Bio-Plex Assay Workflow



# Bio-Plex Manager 6.2



# Bio-Plex Manager 6.2 Standard Curve Analysis & Graphics



# Automatic optimization with feedback

Curve Fit

Optimize Undo Optimize

Clear Outliers

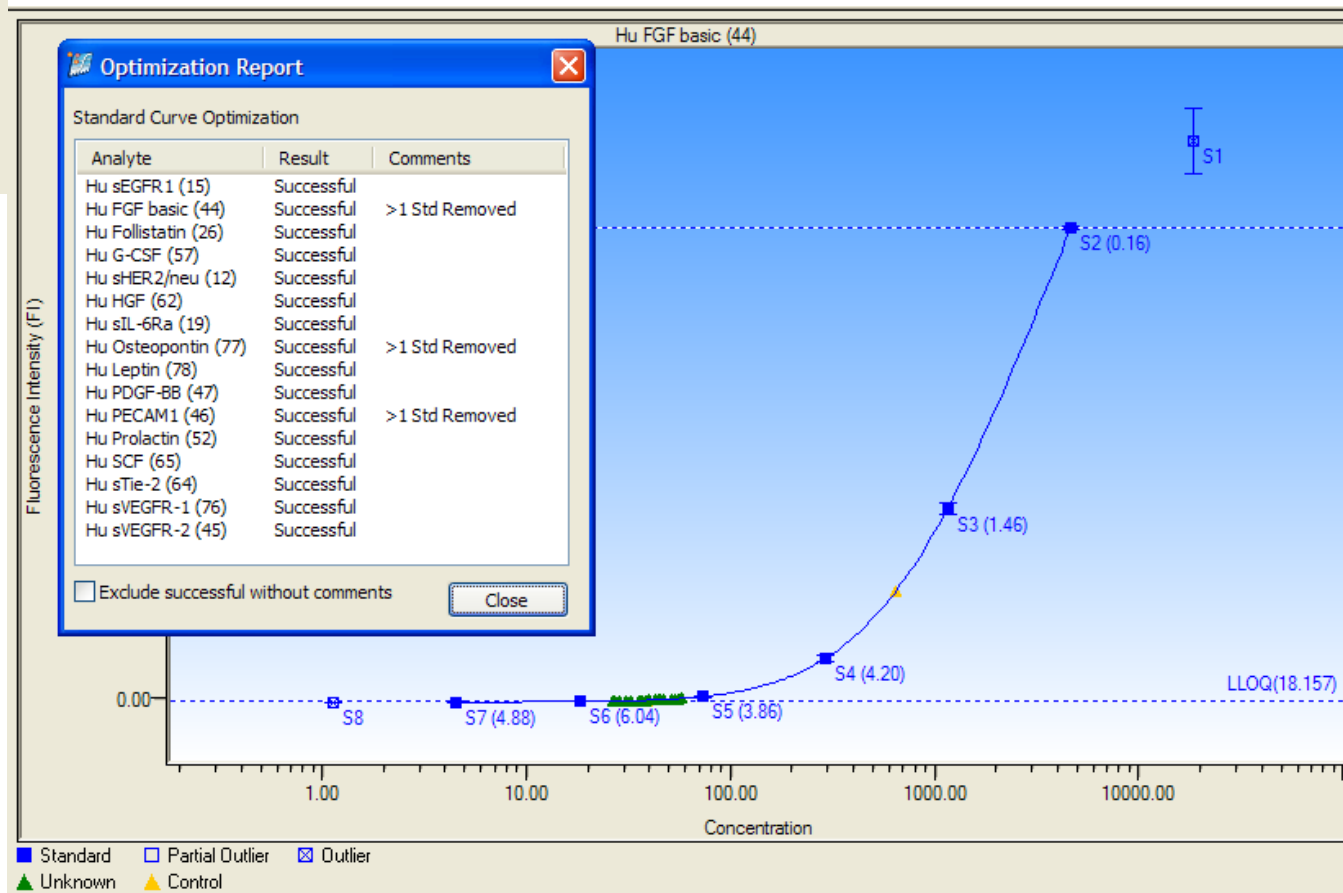
Apply across all analytes

Show report after optimization

Optimization Report

Acceptable Recovery Range: 90 - 110%

Same recovery range for all analytes



# Report Table

## All Relevant Results in One Customizable Table

Plate Formatting Tools

Export

Display Options

Show/Hide Outliers

Organize by Type or Group

Single or Multiple Analytes

Show Replicates

Error Codes

Analyte: Hu IL-9 (77)

| Results | Type | Well     | Description | FI     | FI - Bkgd | Std Dev | %CV   | Conc in Range | Obs Conc | Exp Conc | (Obs/Exp) * 100 | Dilution |
|---------|------|----------|-------------|--------|-----------|---------|-------|---------------|----------|----------|-----------------|----------|
|         | B    | A4,A5,A6 |             | 55.3   | 55.3      | 7.57    | 13.68 |               |          |          |                 | 1.00     |
|         | S1   | A1,A2,A3 | Std1        | 8582.2 | 8526.8    | 262.94  | 3.06  | 21763.65      | 21763.65 | 23352.00 | 93              | 1.00     |
|         | S2   | B1,B2,B3 | Std2        | 7229.7 | 7174.3    | 38.63   | 0.53  | 6110.75       | 6110.75  | 5838.00  | 105             | 1.00     |
|         | S3   | C1,C2,C3 | Std3        | 4158.5 | 4103.2    | 70.54   | 1.70  | 1434.53       | 1434.53  | 1459.50  | 98              | 1.00     |
|         | S4   | D1,D2,D3 | Std4        | 1623.0 | 1567.7    | 42.44   | 2.61  | 367.86        | 367.86   | 364.88   | 101             | 1.00     |
|         | S5   | E1,E2,E3 | Std5        | 506.5  | 451.2     | 20.14   | 3.98  | 90.18         | 90.18    | 91.22    | 99              | 1.00     |
|         | S6   | F1,F2,F3 | Std6        | 182.0  | 126.7     | 12.17   | 6.68  | 23.73         | 23.73    | 22.80    | 104             | 1.00     |
|         | S7   | G1,G2,G3 | Std7        | 82.8   | 27.5      | 6.25    | 7.55  | 5.18          | 5.18     | 5.70     | 91              | 1.00     |
|         | S8   | H1,H2,H3 | Std8        | 62.5   | 7.2       | 3.50    | 5.60  | 1.62          | 1.62     | 1.43     | 114             | 1.00     |
|         | X1   | B4,B5,B6 | BRH269589   | 138.2  | 82.8      | 7.29    | 5.27  | 61.46         | 61.46    |          |                 | 4.00     |
|         | X2   | C4,C5,C6 | BRH269574   | 139.2  | 83.8      | 2.75    | 1.98  | 62.22         | 62.22    |          |                 | 4.00     |
|         | X3   | D4,D5,D6 | BRH269573   | 252.0  | 196.7     | 47.70   | 18.93 | 149.77        | 149.77   |          |                 | 4.00     |
|         | X4   | E4,E5,E6 | BRH269580   | 79.8   | 24.5      | 6.37    | 7.98  | 18.57         | 18.57    |          |                 | 4.00     |
|         | X5   | F4,F5,F6 | PX003328    | 70.2   | 14.8      | 7.29    | 10.38 | 11.76         | 11.76    |          |                 | 4.00     |
|         | X6   | G4,G5,G6 | UT072133    | 55.0   | -0.3      | 1.00    | 1.82  | OOB <         | *1.51    |          |                 | 4.00     |
|         | X7   | H4,H5,H6 | JT066713    | 124.7  | 69.3      | 38.41   | 30.81 | 51.34         | 51.34    |          |                 | 4.00     |

Raw Data

Report Table

Standard Curve

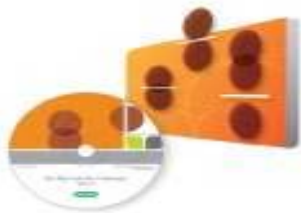
Graphs

# Bio-Rad: Premium Instrument Supplier and Service Provider

- One experienced provider for all your needs
- One call for technical support
- One partner for your success



Instrumentation



Software

- Data Pro
- Organize, automate and visualize data
- Bio-Plex Manager
  - Integrated instrument control and data analysis
  - Genotyping and pathogen detection data analysis

Service



Assays

- Assay Builder
- Cytokines
- Disease Assays
  - Cancer
  - Diabetes
  - Isotyping
  - Acute phase
  - Angionenesis
- Signal transduction
- Assay development reagents

Application Support

