

2005 Immunoassay Survey

1. In what type of institution do you work?

Private Research
Government
Biotech
Pharmaceutical
Clinical Diagnostic Testing
Academic
Other

2. Which title best applies?

Professor/Instructor
Process Engineer
Business Development Director/Manager
Research Director/VP of Research
Department Head
Technician/Research Assistant
Account Manager
Graduate Student
Staff Scientist
Principal Investigator
President/CEO/Owner/VP
Lab Director/Chief Scientist
Postdoctoral Fellow
Procurement Manager
Consultant
Other

3. Which best describes your purchasing authority?

Authorize
Recommend
Evaluate
No Purchase Role

4. What is your principle area of research or work? (check all that apply)

Bioinformatics
Microbiology/Virology
Immunology
Genomics/Genetics
Cell Biology
Diagnostics/Pathology
Drug Discovery
Administration
Biochemistry
Marketing/Sales
Pharmacology/Toxicology
Molecular Biology
Bioengineering
Neuroscience
Proteomics

Purchasing
None of the Above
Other (please specify)

5. Do you currently use immunoassays in your research?

Yes
No (exited from survey)

6. For what are you currently using immunoassays?

Basic Research
Biomarker development/screening
In vitro diagnostics
Infectious disease testing
Isotyping
Lead characterization
Protein expression analysis
Other (please specify)

7. What type(s) of enzyme immunoassay do you currently use in your research? (check all that apply)

Bead-based multiplex assays
EIA
ELISA
ELISpot
Fluorescence polarization assays
RIA
Other (please specify)

8. What supplier(s) of the assay types you chose in the previous question do you prefer to use? (check all that apply)

The question will loop through the items selected in question 3. A separate question will appear for each immunoassay type.

Abazyme
Alpco
Antigenics America
Assay Designs
BD Biosciences
Bender MedSystems
Bio-Rad
BioSource
Calbiochem
Cayman Chemical
Cell Sciences
Cell Signaling Technologies
Diagnostic Systems Laboratory
Endogen (Pierce)
LINCO
Perkin Elmer

Qiagen
R&D Systems
Sigma
Stressgen
Upstate/Chemicon
Other (please specify)

Which of the following immunoassay kit configurations do you typically purchase? (check all that apply)

Complete/preconfigured Kit (includes antibodies, coated plate, substrate, etc.)
Development/construction Kit (includes only antibodies)
Other (please specify)

What sample types/species are you studying in your research? (check all that apply)

Serum – human
Serum – mouse
Serum – rat
Serum – non-human primate
Serum –other
Plasma – human
Plasma – mouse
Plasma – rat
Plasma – non-human primate
Plasma –other
Cell lysate – human
Cell lysate – mouse
Cell lysate – rat
Cell lysate – non-human primate
Cell lysate – other
Cell culture supernatant - human
Cell culture supernatant - mouse
Cell culture supernatant - rat
Cell culture supernatant – non-human primate
Other

What type(s) of detection methods do you primarily use? (check all that apply)

Colorimetric
Chemiluminescent
Fluorescent
Radioisotope
Other (please specify)

In which of the following categories do you use immunoassays for measuring analytes? (check all that apply)

Angiogenesis
Apoptosis
Cell Adhesion
Cell Cycle

Cell Signaling/Signal Transduction
Cytokines and Growth Factors
Cytoskeleton
Glycoproteins/Glycobiology
Neurobiology
Nuclear Function
Oxidative Stress
Phosphatase
Phospho Amino Acid
Stem Cell
Transcription Factors/Regulation
Translational Control
Other (please specify)

Do you currently use or plan to use a commercially available ELISA kit to any of the following molecules or molecule types? (check all that apply)

TNF-alpha
MIF (Macrophage Migration Inhibitory Factor)
PSA (Prostate Specific Antigen)
Interleukins
None of the above

Please rate the following immunoassay features from 1 to 5 on a scale of importance to you. (1 = Least Important, 5 = Most Important)

Sensitivity
Low cross reactivity/interference
Affordability
Short protocol time
Assay precision
Reproducibility
Dynamic range

Which of the following products and services are you planning to purchase and what is your purchasing timeframe?

Within 3 months
3 – 9 months
9 – 12 months
More than 12 months
Do not plan to purchase

Microplate reader
Integrated multiplex assay system
Flow cytometer
Multiplex software
Multiplex assay services
Assay design services
Automated microplate handler

Blot/sel documentation system
Dot/slot blotter
Microplate washer

On average, how many samples do you analyze per week?

Less than 10
11 – 25
20 – 50
51 – 100
101 – 250
251 – 500
More than 500

How do you expect the total number of samples analyzed in your lab to change over the next 12 months?

Increase by > 50%
Increase by 25% - 50%
Increase by 10 – 25%
Increase by 1% - 10%
No change
Decrease by 1% - 10%
Decrease by 10% - 25%
Decrease by 25% - 50%
Decrease by > 50%

On average, how many multiwell plates do you process per week?

Less than 1
1 – 2
3 – 5
6 – 10
11 – 20
More than 20
Not sure

What size multiwell plate do you primarily use for immunoassays?

6 well
12 well
24 well
48 well
96 well
386 well
Other (please specify)

**What problems/limitations have you encountered in using immunoassays?
(check all that apply)**

Adapting assay to high throughput format
Cost of detection equipment
Price of assay kits and/or reagents
Time to results

Decreased sensitivity
Irreproducibility
Low signal-to-noise
Quality control
Other (please describe)

Do you use Luminex xMAP® technology-based multiplex immunoassay products?

Yes
Not sure (skip next two questions)
No (skip next two questions)

Which of the following bead-based multiplex assay products do you currently use? (check all that apply)

Preconfigured kits
Custom coupled beads and antibodies
Beads for self-coupling
Other (please specify)

How many analytes do you typically measure within a single sample?

1
2 – 10
11 – 25
26 – 50
51 – 100