

Product Review

Raw Materials for Immunoassay Development and Manufacturing

Antibodies

Monoclonal Antibodies

| Specificity | Availability |
|------------------------------------|---------------------|
| Albumin | 4 Clones |
| C-Reactive Protein | 1 Clone |
| Carcinoembryonic Antigen (CEA) | 1 Clone |
| Cathepsin D | 2 Clones |
| Human Chorionic Gonadotropin (hCG) | 1 Clone |
| α -hCG | 1 Clone |
| β -hCG | 2 Clones |
| Creatine Kinase BB (CK-BB) | 1 Clone |
| Creatine Kinase MB (CK-MB) | 2 Clones |
| Creatine Kinase MM (CK-MM) | 1 Clone |
| Ferritin | 1 Clone |
| α -Fetoprotein (AFP) | 1 Clone |
| β -hFSH | 1 Clone |
| Hepatitis B Surface Antigen | 3 Clones |
| Immunoglobulin E (IgE) | 2 Clones |
| β -hLH | 2 Clones |
| β 2-Microglobulin | 1 Clone |
| Myoglobin | 1 Clone |
| Prolactin | 3 Clones |
| PSA & PSA/ACT | 6 Clones |
| β -hTSH | 4 Clones |

Goat Polyclonal Antibodies (Purified)

| Specificity | Catalog No. |
|------------------------------------|--------------------|
| Albumin | GA029 |
| C-Reactive Protein | GC019 |
| Human Chorionic Gonadotropin (hCG) | GC079 |
| α -hCG | GC089 |
| β -hCG | GC099 |
| Creatine Kinase MM (CK-MM) | GC139 |
| Ferritin | GF039, GF035 |
| Myoglobin | GM079, GM079 |
| Prolactin | GP159 |
| PSA | GP079, GP075 |

IMMUNOASSAY DESIGN

Immunoassays are often designed around the limitations of the selected antibodies. For example, many commercially available pregnancy assays require the addition of an antibody to another hormone (LH), to minimize cross-reactivity due to limitations of the hCG antibody repair. In addition, lot-to-lot variability of the antibody preparations can complicate the assay manufacturing process, requiring time-consuming prequalification testing or procedural adjustments during the manufacturing process.

As a primary manufacturer of purified antigens, monoclonal and polyclonal antibodies, and a lateral flow assay, Scripps Laboratories recognizes the importance of antigen quality in the initial production and screening of monoclonal and polyclonal antibodies. In addition, appropriate purification methods must be developed to ensure reproducible antibody characteristics for use in the manufacture of an immunoassay. The design process that led to the development of the hCG One-Step pregnancy test provides Scripps a unique understanding of the critical components and processing steps necessary to consistently manufacture a reproducible assay.

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Hormones - Cardiac Markers - Cancer Markers - Plasma & Tissue Proteins - Antibodies

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