

SCRIPPS **PRODUCT REVIEW**

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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 pair. In addition, lot-to-lot variability of the antibody preparations can complicate the assay manufacturing process, requiring time-consuming pre-qualification 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.

To evaluate these or other materials, please call, fax, or contact us via our website.

Contact Scripps for all your bulk biochemicals:

**HORMONES
CARDIAC MARKERS
CANCER MARKERS
PLASMA PROTEINS
ANTIBODIES**

(colloidal gold conjugation is available)

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Antibodies for Immunoassay Development

Monoclonal Antibodies

<u>Specificity</u>	<u>Clone ID's</u>
Albumin	BA003, CA002, CA003, CA004, CA005, CA006
C-Reactive Protein	CC002
α-hCG	BC005
β-hCG	AC001, BC001*
Cathepsin D	BC010, BC011
Creatine Kinase MB	BC007, BC008
Hepatitis B Surface Ag	BH001S, BH002S, BH004S, BH005S
β-2-Microglobulin	CM001, CM002, CM003, CM004
Myoglobin	BM002S
PSA/ACT	AP001S
PSA	AP002S, AP003S, AP004S, AP005, BP001, BP002, BP003, BP004S, BP005S, BP008S

Goat Polyclonal Antibodies (affinity purified)

<u>Specificity</u>	<u>Catalog #</u>
Albumin	GA029
C-Reactive Protein	GC019
hCG, intact	GC079
α-hCG	GC089
β-hCG	GC099*
Creatine Kinase MM	GC139
Myoglobin	GM079
PSA	GP079

Assay Reagents

<u>Description</u>	<u>Catalog #</u>
Gold Conjugate Stabilizer	B0221* (sodium azide)
HRP Conjugate Stabilizer	H1521 (no preservative) H1522 (proprietary preservative) H1523 (thimerosal) H1623 (10x concentrate, thimerosal)
Plate Coating Stabilizer	P3323 (no preservative)

* These reagents (clone BC001, cat #GC099, and cat #B0221) have been used successfully in the development of a lateral flow pregnancy test which shows no cross-reaction with LH when tested up to 5,000 mIU/ml.