



solulink™



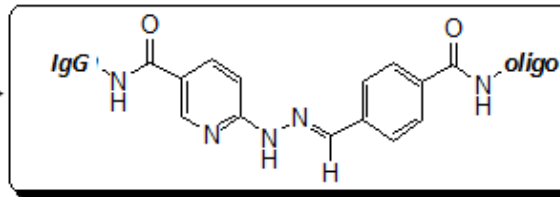
Applications

GET BETTER RESULTS.
GUARANTEED.

www.solulink.com

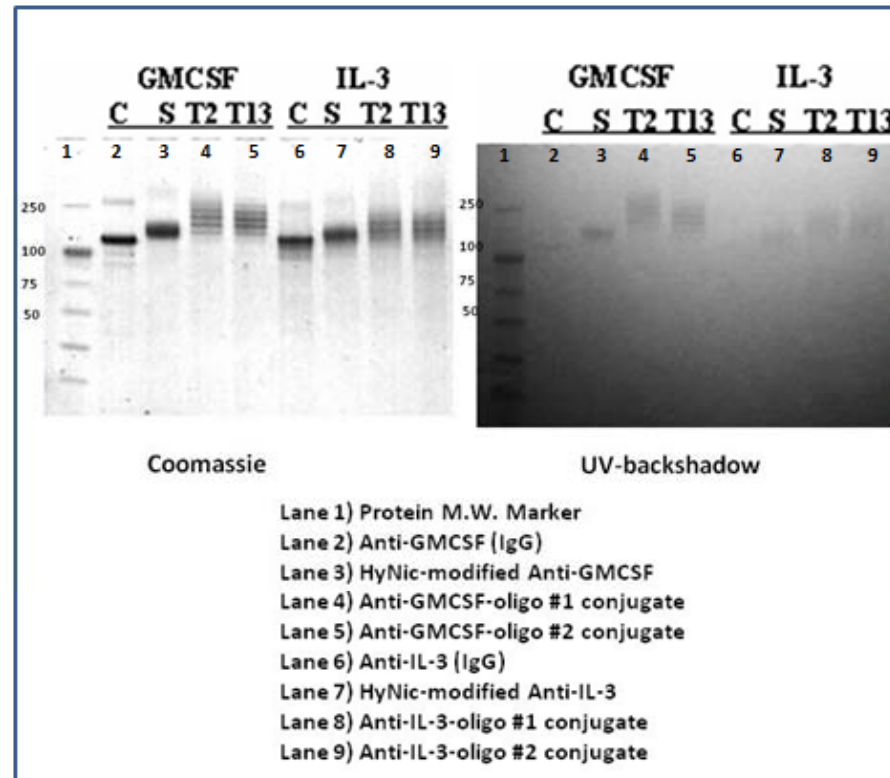
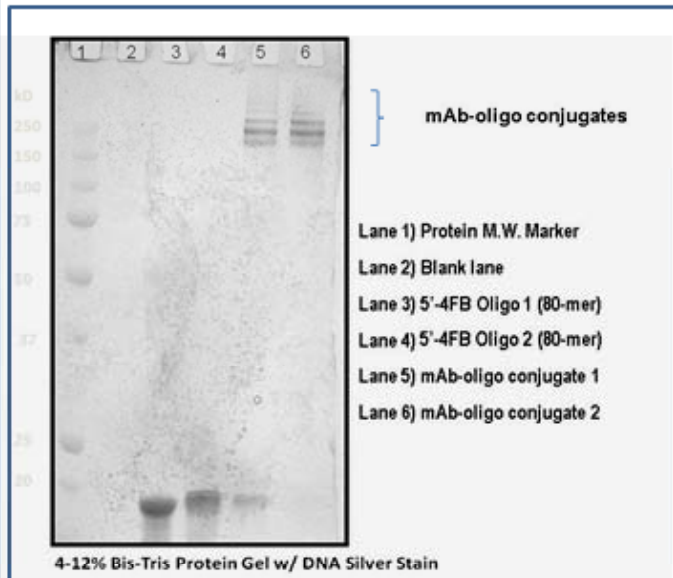
Antibody-oligonucleotide conjugates

HyNic-IgG + 4FB-Oligo



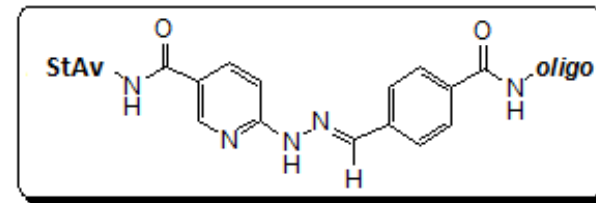
Major Applications:

i-PCR (Real-time Immuno-PCR)



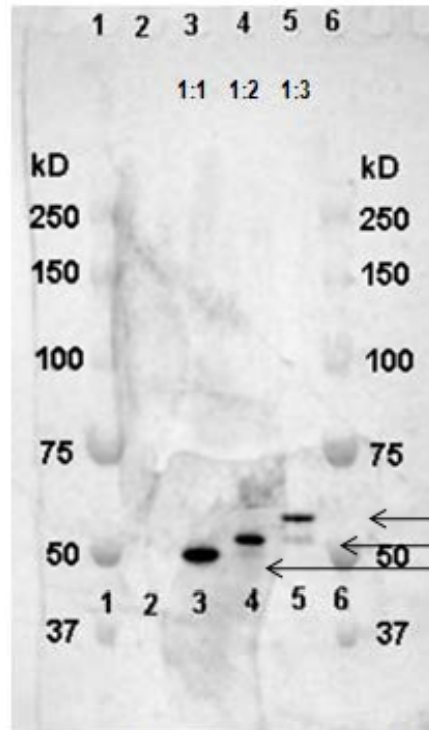
Streptavidin-oligonucleotide conjugates

HyNic-Streptavidin + 4FB-Oligo (20-mer) →



Major Applications:

Binding assays and microarrays



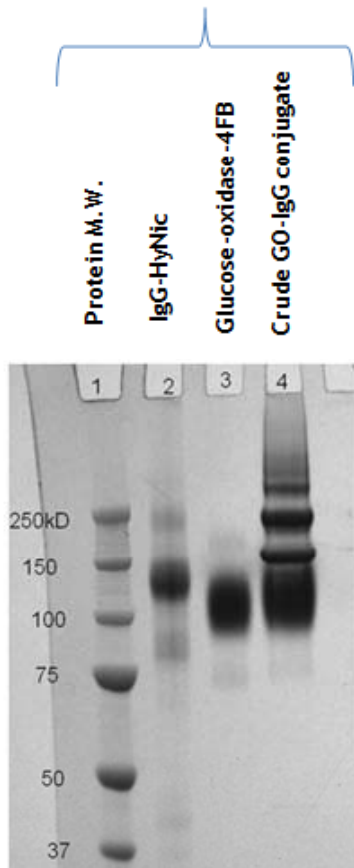
Lane 1) Protein M.W. marker
 Lane 2) Blank lane
 Lane 3) Purified streptavidin-oligo conjugate 1:1 heterodimer
 Lane 4) Purified streptavidin-oligo conjugate 1:2 heterodimer
 Lane 5) Purified streptavidin-oligo conjugate 1:3 heterodimer

← 1:3 heterodimer
 ← 1:2 heterodimer
 ← 1:1 heterodimer

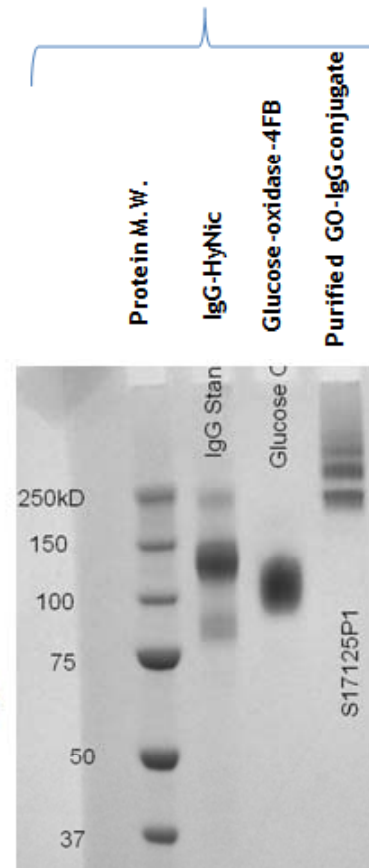
4-12% Bis-Tris gradient gel
 DNA silver stain

Antibody-enzyme conjugate

Crude Conjugation Reaction




Purified Conjugation Reaction



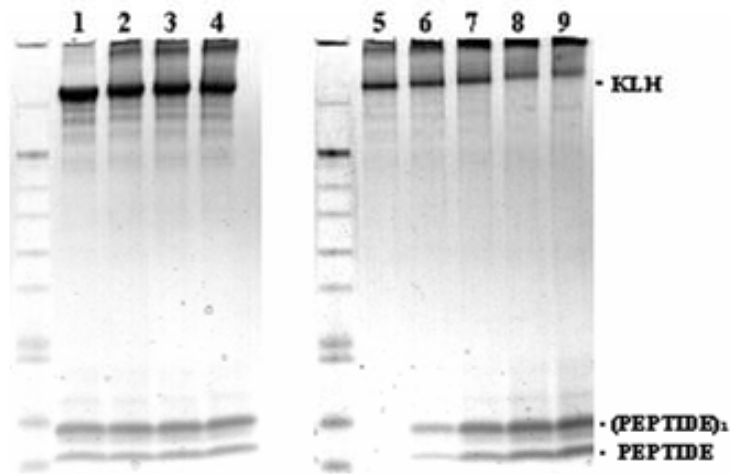
Major Applications:

- ELISA
- Westerns

Superdex

 purification

4-12% Bis-Tris SDS-PAGE Gel

KLH-peptide conjugates



Major Applications:

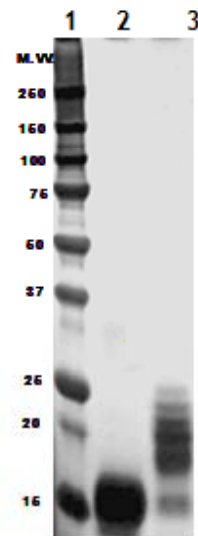
Carrier-based antibody production

- | | |
|-------------------|-------------------|
| 1: KLH | + PEPTIDE [1:100] |
| 2: KLH/SFB (x50) | + PEPTIDE [1:100] |
| 3: KLH/SFB (x100) | + PEPTIDE [1:100] |
| 4: KLH/SFB (x200) | + PEPTIDE [1:100] |
| 5: KLH/SFB (x500) | + PEPTIDE [1:0] |
| 6: KLH/SFB (x500) | + PEPTIDE [1:50] |
| 7: KLH/SFB (x500) | + PEPTIDE [1:100] |
| 8: KLH/SFB (x500) | + PEPTIDE [1:150] |
| 9: KLH/SFB (x500) | + PEPTIDE [1:200] |

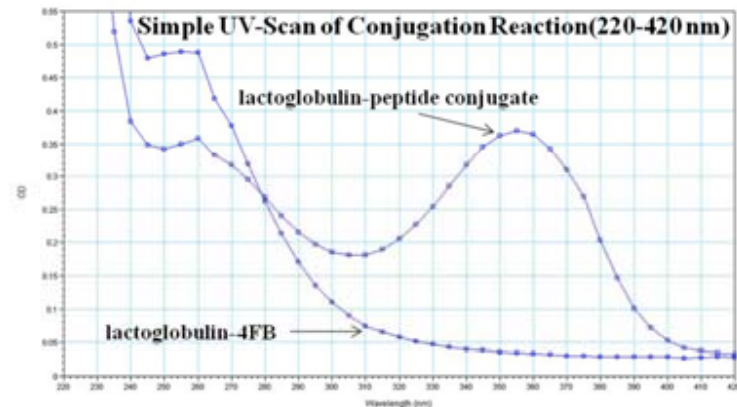
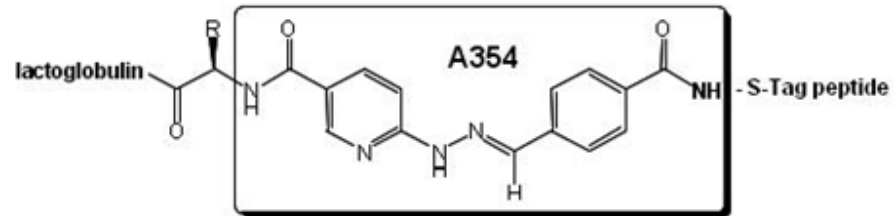
Protein-peptide conjugates

PepLink Peptides Feature

- HyNic at NH₂- or C-terminus
- No -SH functionality required
- Lysines are left unmodified
- UV-traceable conjugates



Lane 1) Protein M.W. marker
 Lane 2) 4FB-lactoglobulin (M.W. 18,300) (Modified w/ 10x S-4FB)
 Lane 3) lactoglobulin-peptide conjugate (Conjugated w/ 7-fold excess S-Tag peptide, M.W. 2030)

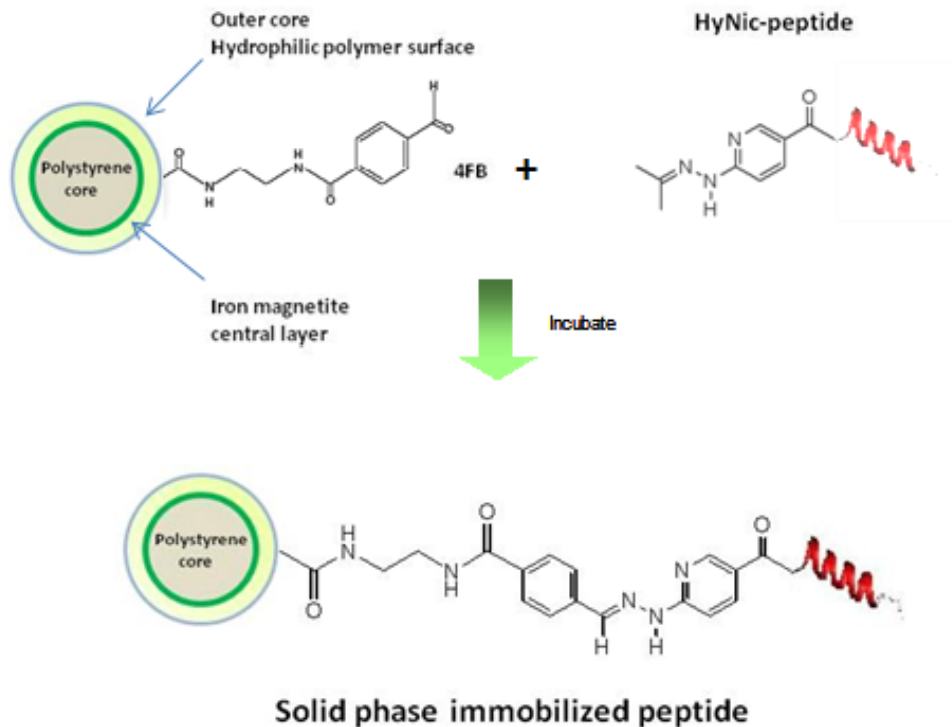


Conjugation is UV-Traceable @ 354 nm

Major Applications:

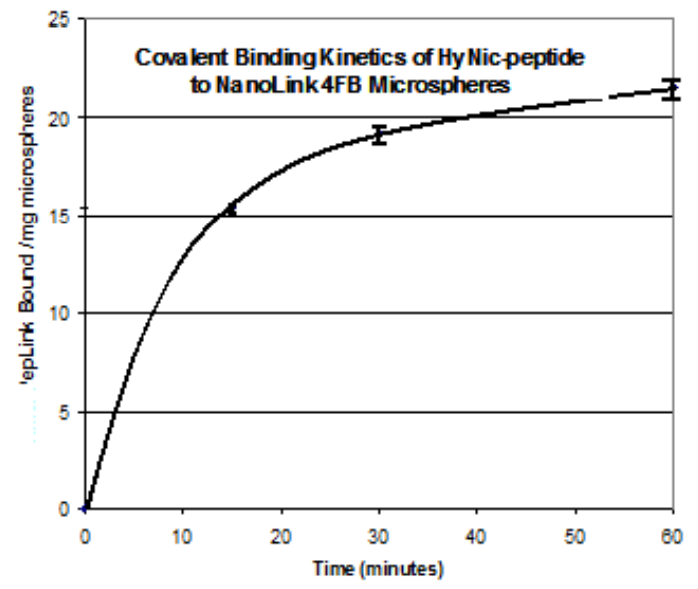
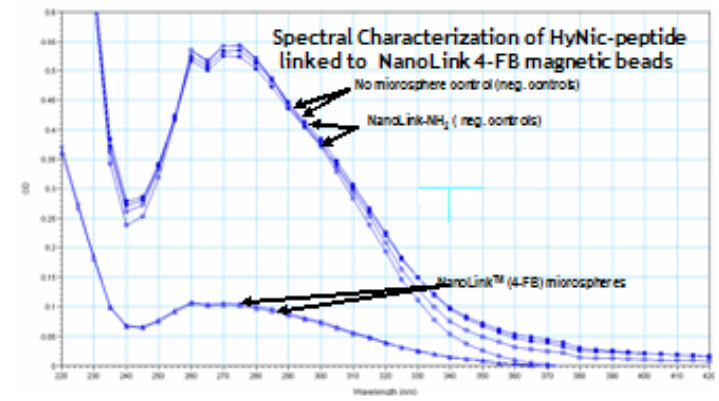
Carrier-based antibody production
 Peptide-based conjugate vaccines

Solid Phase Peptide Immobilization



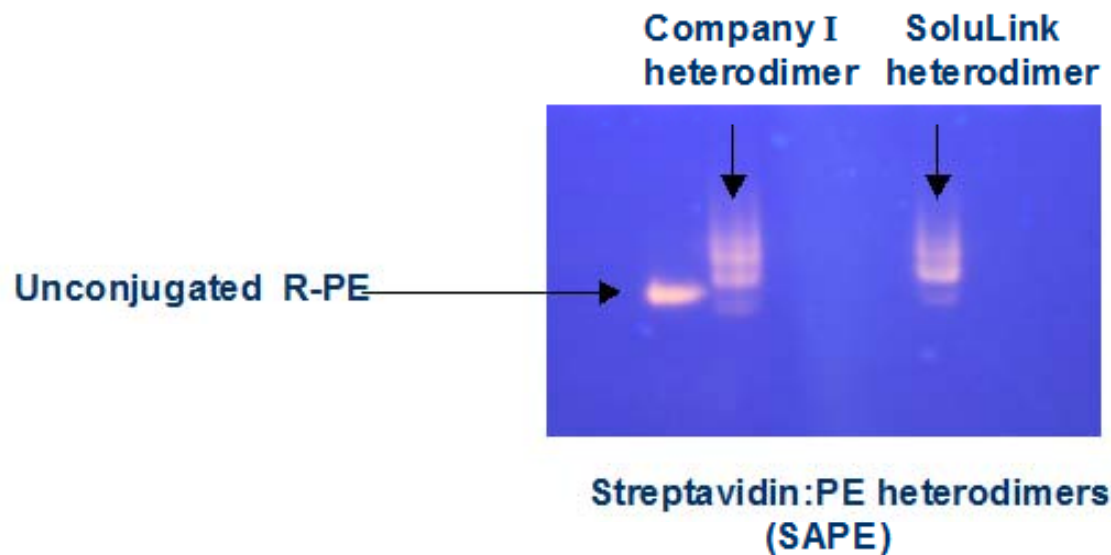
Major Applications:

Affinity purification of cognate antibodies or other proteins



Streptavidin-phycoerythrin conjugates

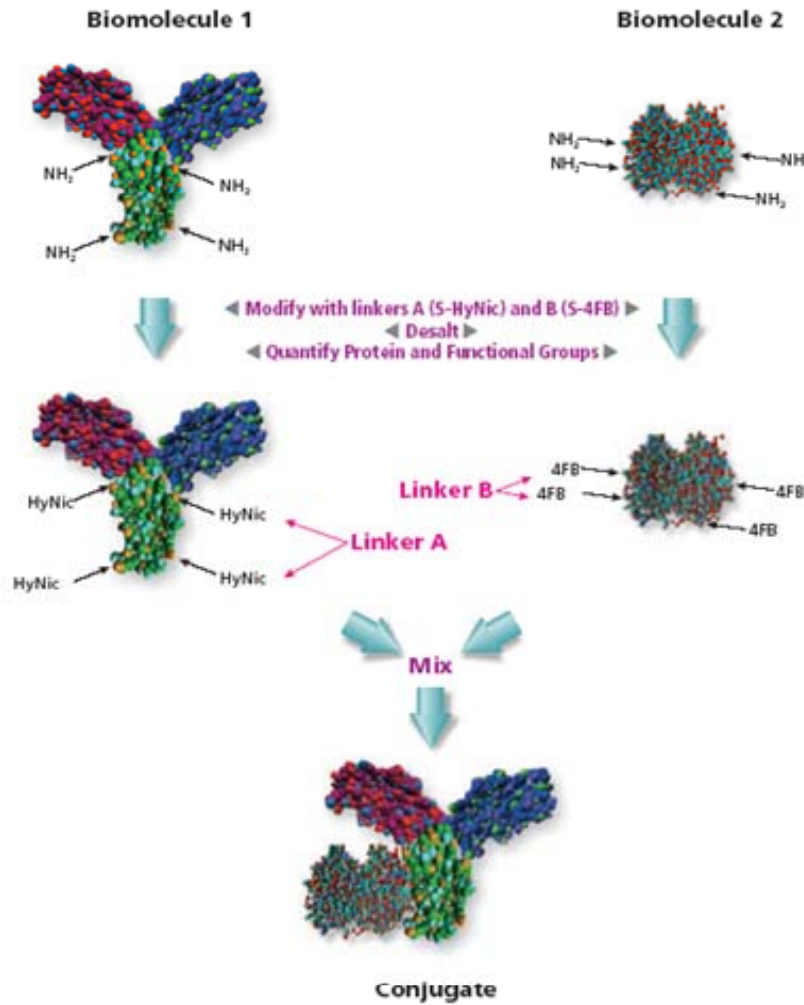
- Biofluorescent protein/protein conjugates
- Polymers
- heterodimers



Major Applications:

Microarray detection

Protein Conjugation Kit



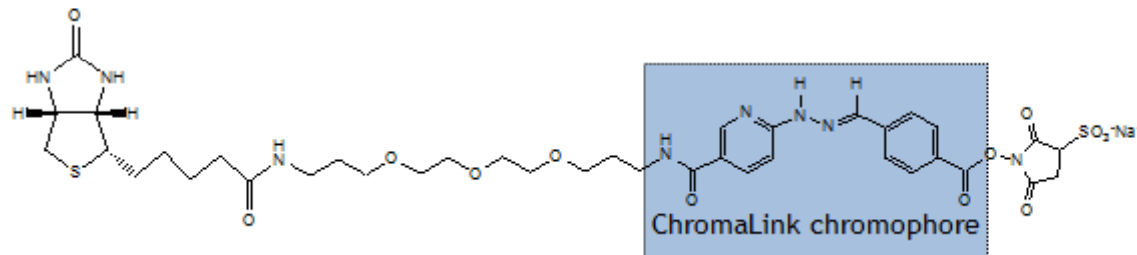
Major Applications:

Conjugation of antibodies to proteins and oligonucleotides

S-HyNic Bioconjugation Kit

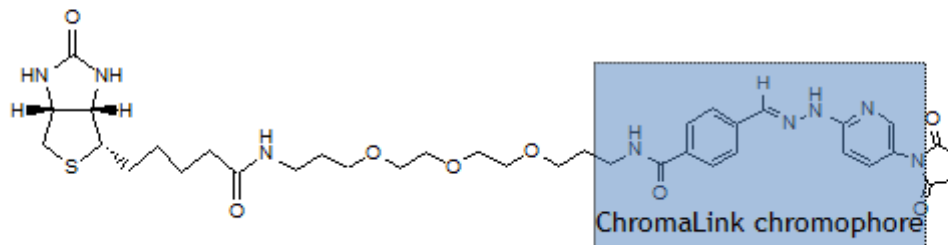


ChromaLink Traceable Linkers



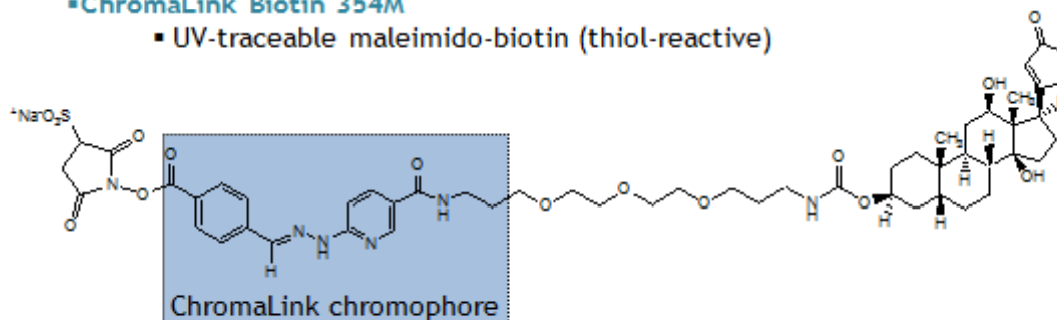
▪ ChromaLink Biotin (Sulfo-NHS)

- New water-soluble UV-traceable biotin linker (amine-reactive)



▪ ChromaLink Biotin 354M

- UV-traceable maleimido-biotin (thiol-reactive)



▪ ChromaLink Digoxigenin (Sulfo-NHS)

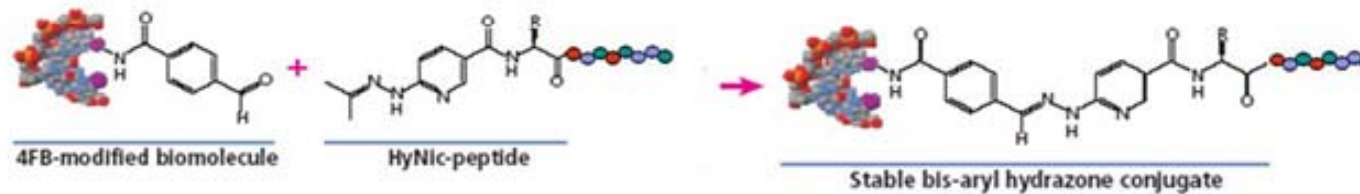
- New water-soluble UV-traceable digoxigenin linker (amine-reactive)

Major Applications:

Biotinylation of antibodies or amino-modified DNA/RNA

Digoxigenin-labeling of antibodies or amino-modified DNA/RNA

PepLink Linkable Peptides

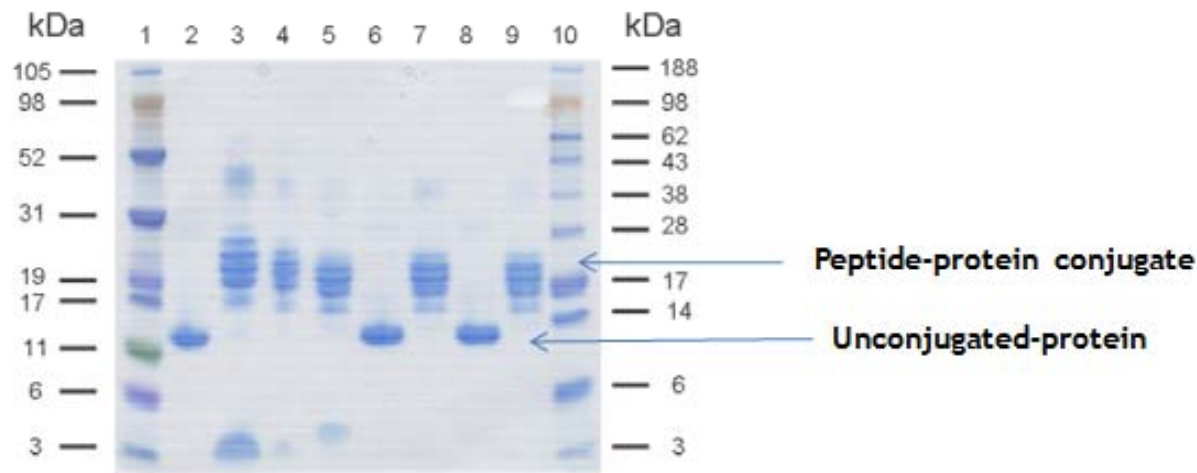


Three Easy Steps

1. Incorporate 4-FB on protein or carrier
2. Add PepLink peptide
3. Remove excess peptide w/spin filter

Major Applications:

- Affinity tagging of proteins with peptides
- Solid phase peptide immobilization
- KLH-peptide conjugation



NanoLink Streptavidin Magnetic Beads

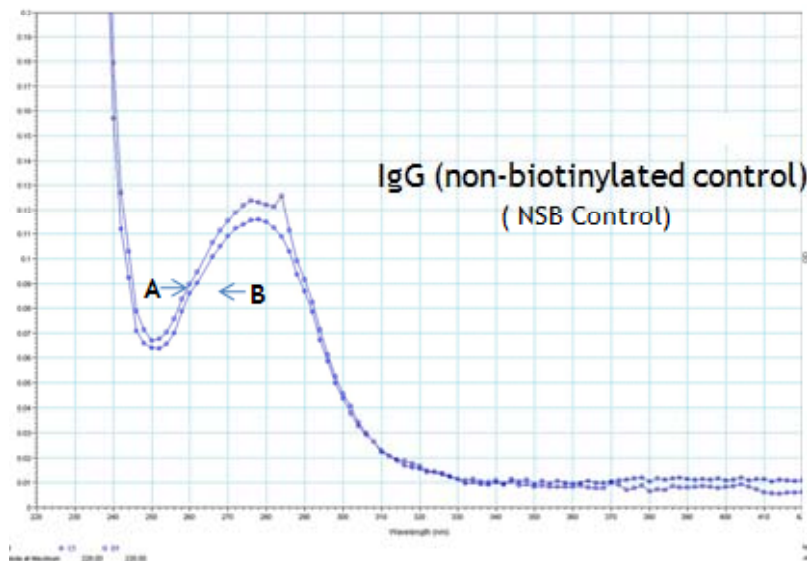
Features

- Highest binding capacity
- Low NSB

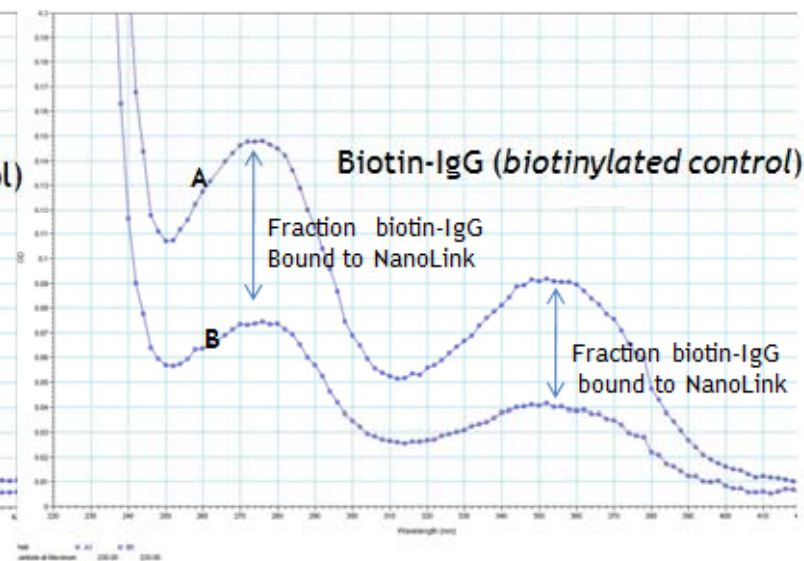
Major Applications:

Immobilization of biotinylated biomolecules (DNA, RNA, antibodies)

A: 0 mg NanoLink Streptavidin beads+250 ug IgG (No bead control)
 B: 0.5 mg NanoLink Streptavidin beads+250 ug IgG



A: 0 mg NanoLink Streptavidin beads+250 ug Biotin-IgG (No bead control)
 B: 0.5 mg NanoLink Streptavidin beads+250 ug Biotin-IgG



Experimental Conditions:

0.5 mg NanoLink streptavidin magnetic beads
 Bovine IgG: Biotinylated with ChromaLink Biotin (final biotin molar substitution ratio = 3.4)
 Blocking: Beads were blocked for 30 minutes w/ casein-block solution
 Antibody Binding buffer: 500 ul Binding Buffer (50 mM Tris, 150 mM NaCl, 0.05% Tween-20)
 Immobilization time: 60 min @ room temp on platform shaker
 Detection: Supernatants were recovered and scanned (220-420 nm) to assess bound from unbound fraction
 Final Analysis: Biotin binding capacity = 250 ug Biotin-IgG/mg NanoLink Streptavidin (1.66 nmol biotin-IgG/mg beads)