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# SULFO CHROMALINK® BIOTIN (WATER SOLUBLE)

**SKU:** B-1007




## DESCRIPTION

ChromaLINK Biotin contains a UV-traceable chromophore based on ChromaLINK technology to enable reproducibility in your biotinylation process. Now you can measure the degree of biotinylation in minutes, not hours, without the standard curves required for HABA/avidin and fluoro-reporter assays. With a simple, non-destructive UV scan, you can quantify biotin incorporation and ensure reproducible production of consistent batches. This biotinylation reagent is water soluble, which means no DMF or other organic solvent is required to dissolve the compound prior to labeling.

## SPECIFICATIONS

| | |
|---|---|
| **Reactivity** | Streptavidin |
| **Unit Size** | 5 x 1 mg |
| **Storage Instructions** | Desiccated: -15° to -25°C |

**For research use only. Not intended for therapeutic or diagnostic use in animals or humans.**

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**Label** biotin

# TECHNICAL INFORMATION

## Introduction to ChromaLINK Labeling Technology

ChromaLINK Biotin incorporates UV-traceable biotin onto proteins containing lysine residues (amine groups) via a water-soluble-succinimidyl activated ester. ChromaLINK Biotin has been engineered to include many novel features. As illustrated in Figure 1, the molecule's structure contains a bis-aryl hydrazone chromophore (**a**), linked by a PEG3 linker arm (**b**), to biotin (**c**). This reagent permits direct spectroscopic quantification of incorporated biotin. The extended PEG3 linker preserves biotin/streptavidin affinity and maintains protein solubility after modification while the succinimidyl ester functional group (**d**), efficiently modifies lysines in aqueous buffers.

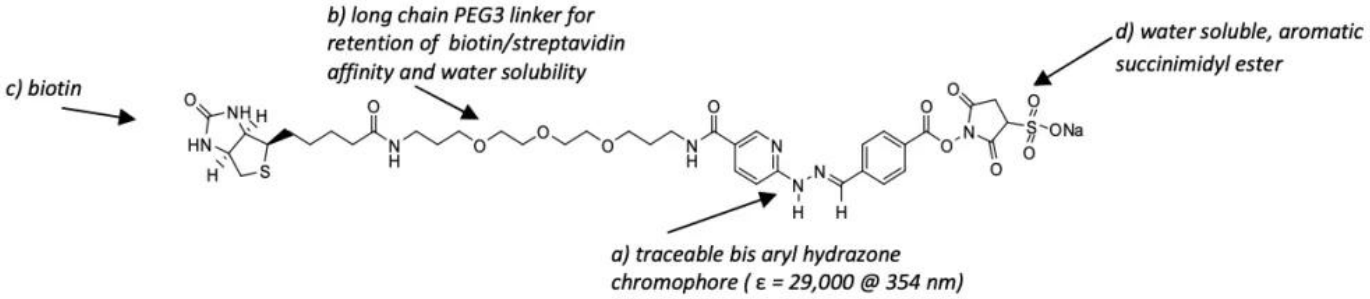



**Figure 1.** Molecular structure of ChromaLINK Biotin (water soluble)

Labeling of proteins with ChromaLINK Biotin eliminates the need to carry out cumbersome and time-consuming HABA assays often employed to quantify biotin incorporation. Instead, biotin incorporation is quantified by means of a simple spectrophotometric measurement at two wavelengths (A280 / A354). Typical labeling results are illustrated in Figure 2 by spectral overlay scans of four samples. As illustrated, bovine IgG (100 ul @ 5 mg/ml) was labeled at 0, 5,10, and 15 mole equivalents using ChromaLINK Biotin. Spectral analysis illustrates how easy it is to visualize, confirm, and quantify biotin incorporation.

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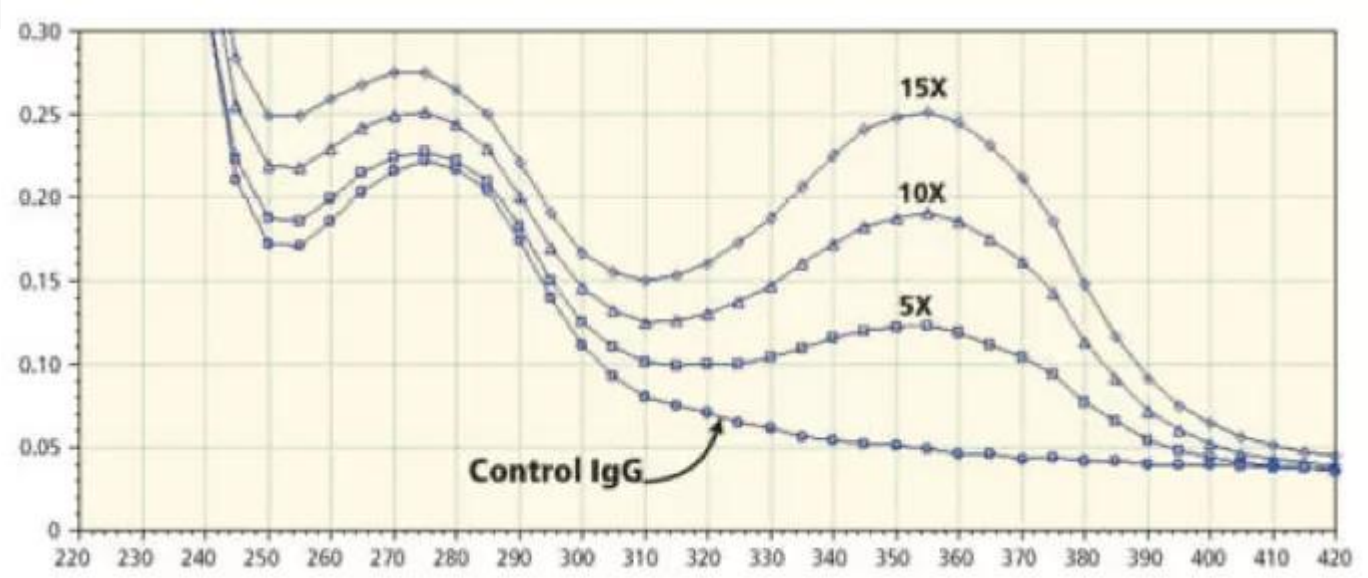



**Figure 2.** Superimposed spectra of bovine IgG biotinylated using ChromaLINK Biotin. Various biotin-to-protein mole equivalents (5X, 10X and 15X) were used. Note the traceable UV-signature @ 354nm indicating incorporation of biotin. All spectra were scanned on a Molecular Dynamics SpectraMax PlusTM UV-VIS plate reader (220-420 nm).

# CITATIONS

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# DOCUMENTS

- User Guide
- Safety Data Sheet
- B-1007 – ChromaLINK Biotin Conjugation Calculator
- Bioconjugation White Paper
- Troubleshooting Guide – Bioconjugation
- Oligonucleotide Buffer Exchange and Desalting Protocol
- Protein Buffer Exchange and Desalting Protocol
- BCA Protein Assay Protocol
- Bradford Assay Protocol
- Download CoA
- Datasheet

# GALLERY IMAGES



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