



Isobaric Multiplex Reagents For Carbonyl Containing Compound High-Throughput Quantitative Analysis

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Inventors: Lingjun Li, Yu Feng, Bingming Chen, Qinying Yu, Xuefei Zhong, Miyang Li

The Invention

The present invention provides a set of novel isobaric chemical tags, also referred herein as SUGAR (Isobaric Multiplex Reagents for Carbonyl Containing Compound). These labeling tags are compact and easy to synthesize at high yield and purity in just a few steps using commercially available starting materials. The tagging reagents of the present invention comprise: a) a reporter group, having at least one atom that is optionally isotopically labeled; b) a balancing group, also having at least one atom that is optionally isotopically labeled, and c) an aldehyde, ketone, or carboxylic acid reactive group. The multiplex SUGAR tags are able to react with an aldehyde, ketone, or carboxylic acid group of the molecule to be tagged, which offers the capability for labeling and quantitation of glycans, proteins/peptides, and fatty acids.

Additional Information

For More Information About the Inventors

- [Lingjun Li](#)

Tech Fields

- [Analytical Instrumentation, Methods & Materials: Mass spectrometry.](#)

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854