

**Method to Characterize and Monitor Covalent Interactions of Flavor Compounds with  
Beta lactoglobulin using Mass Spectrometry and Proteomics**

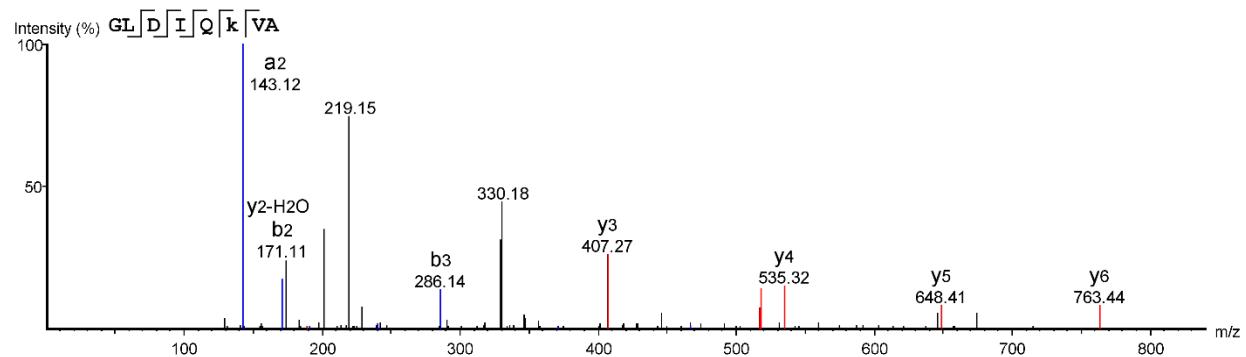
**Authors: Vaidhyanathan Anantharamkrishnan<sup>1\*</sup>, Gary A. Reineccius<sup>1#</sup>**

**1 Department of Food Science and Nutrition, University of Minnesota, St. Paul, Minnesota  
55108, USA**

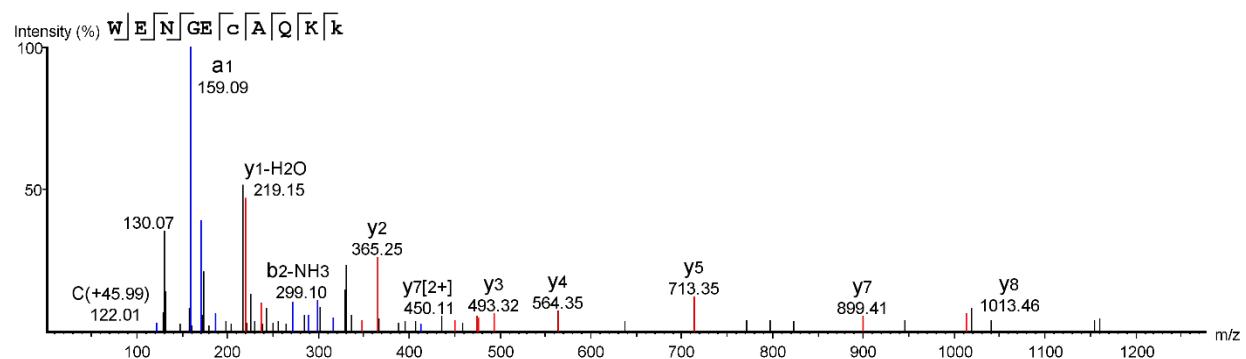
**\*anant040@umn.edu #greinecc@umn.edu**

## Supplemental Information for Proteomics Data

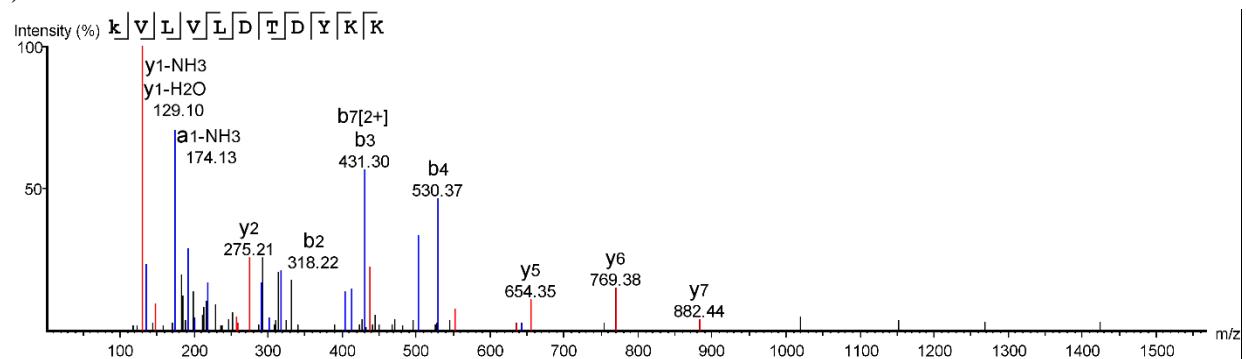
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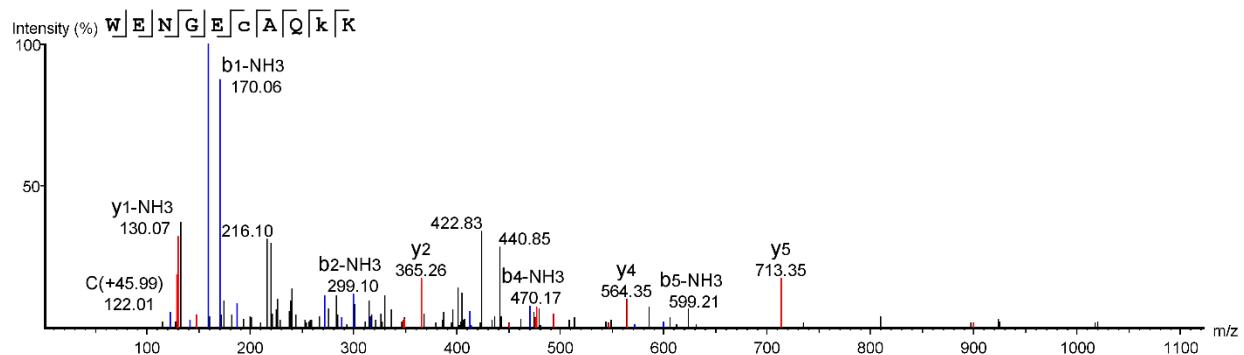
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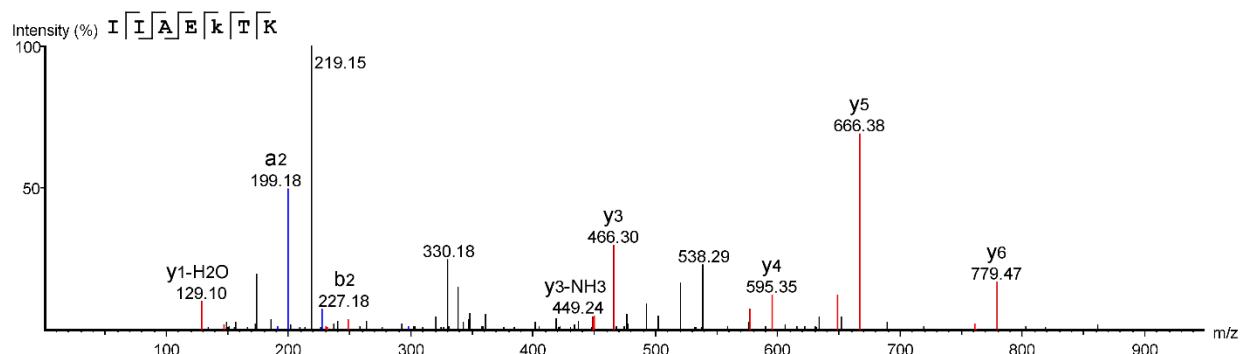
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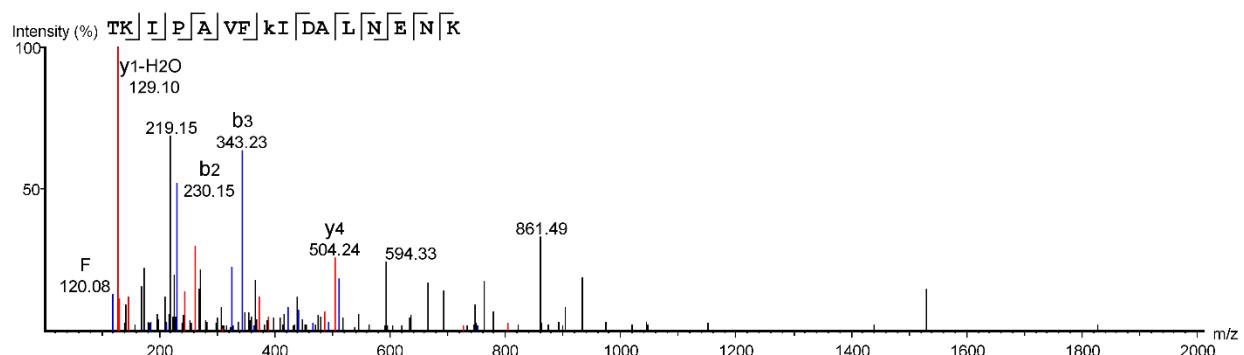
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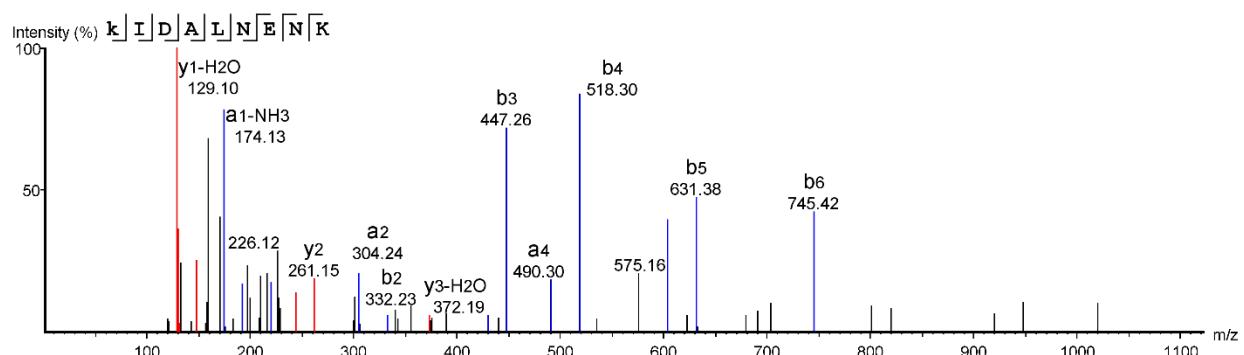
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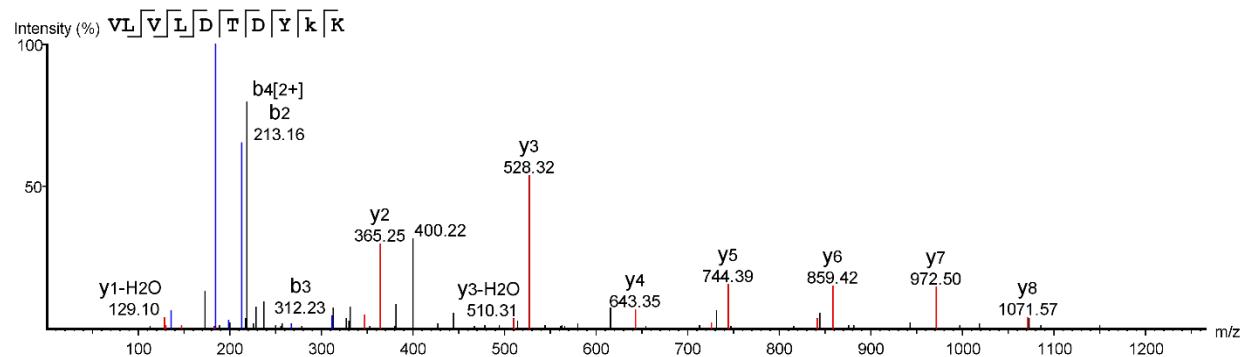
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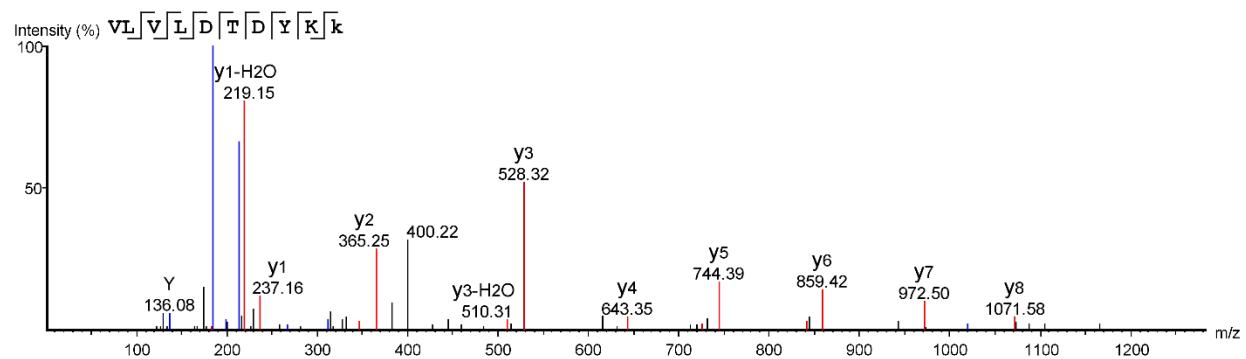
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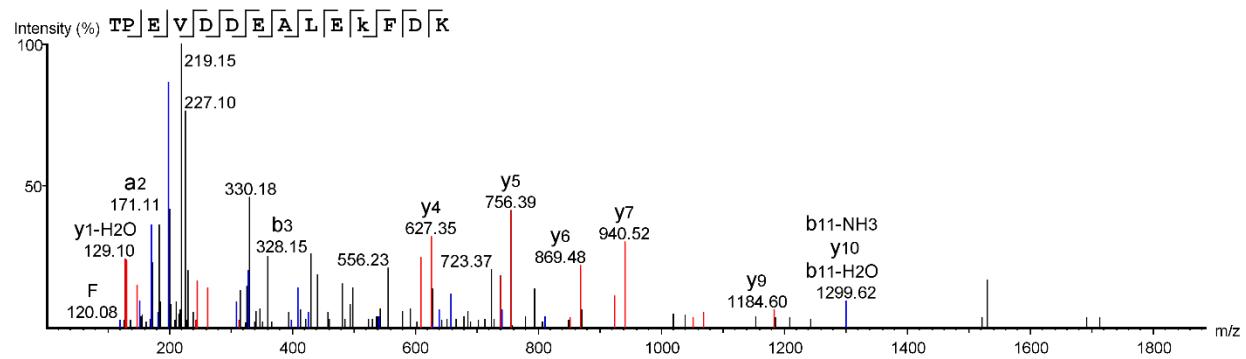
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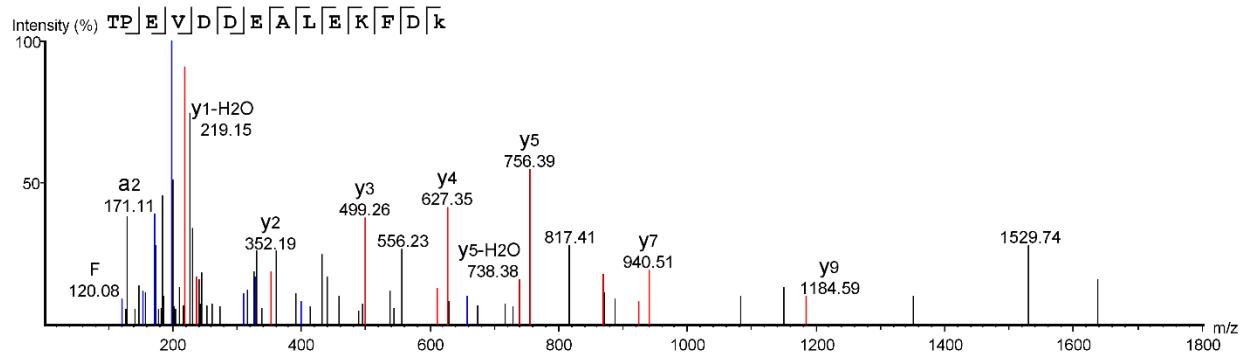
i)



j)



k)



1 )

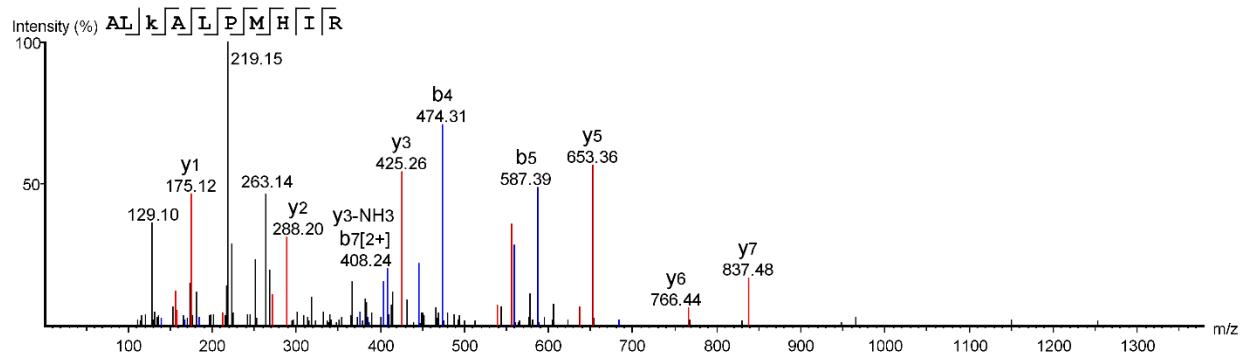


Fig 1: Tandem mass spectra of modified peptides (a) GLDIQkVA (position 25-32, modified m/z = 467.275), (b) WENGcAQKk (position 77-86, modified m/z = 664.793), (c) k(+90.05)VLVLDTDYKK (position 107-117, modified m/z = 471.61) (d) WENGEcAQkK (position 77-86, modified m/z = 443.5309), (e) IIAEkTK (position 87-93, modified m/z = 446.7801), (f) TKIPAVFkIDALNENK (position 92-99, modified m/z = 497.3120), (g) kIDALNENK (position 99-107, modified m/z = 567.8116), (h) VLVLDTDYkK (position 108-117, modified m/z = 642.3671), (i) VLVLDTDYKk (position 108-117, modified m/z = 642.3671), (j) TPEVDDEALEkFDK (position 140-154, modified m/z = 575.9478), (k) TPEVDDEALEKFDk (position 140-154, modified m/z = 575.9478), (l) ALkALPMHIR (position 155-164, modified m/z = 642.3671).

= 413.9194) through the benzaldehyde- schiff's base reaction with the lysine group in beta lactoglobulin protein after reduction with NaBH4.