

## عنوان مقاله:

Structural Changes of Whey Protein Isolate Affected by Solvent

## محل انتشار:

سومین کنفرانس بین المللی علوم صنایع غذایی، کشاورزی ارگانیک و امنیت غذایی (سال: 1398)

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## خلاصه مقاله:

This study aimed to probe the structural changes of whey protein isolate (WPI) as a function of pH (4-9) and NaCl concentrations (0-0.5M) using fluorescence, 3D-fluorescence and circular dichroism (CD) spectroscopies. Findings of UV-Vis spectroscopy and atomic force microscopy (AFM) confirmed the aggregation of WPI at pH 4, indicating associations in whey proteins. WPI had looser secondary and tertiary structures at acidic (pH 4 and 5) and basic (pH 9) conditions compared with pH 7.2 and 6; as well as at 0.1 and 0.3 M NaCl compared with other NaCl concentrations.

## کلمات کلیدی:

Aggregation, Circular dichroism, Fluorescence spectroscopy, Ionic strength, pH, Secondary structures, Tertiary structures

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1010576>

