



Journal

*J. Biol. Chem.
Environ. Sci., 2017,
Vol. 12(4): 63-68*

<http://biochenv.blogspot.com.eg/>

DEVELOPING RAPID AND SENSITIVE SPECTROPHOTOMETRIC METHOD TO MEASURE MILK PROTEIN IN DAIRY PRODUCTS

Karima Abo El Einen Mostafa

*Dairy Chemistry Dep., Animal Production Inst., Agric.
Res. Center, Ministry of Agric.*

ABSTRACT

Milk protein is one of the most important component in milk, nutritionally and for its importance in the cheese industry. Thus it was necessary to find rapid and accurate method for determining the protein content in milk instead of Kjeldahl method, which is not suitable for routine determination of protein content in large number of milk samples.

Results obtained showed that, Kjeldahl method and Bromocresol green (BCG) method gave similar results with insignificant differences and the recovery was 90 to 105 %. The BCG method is not validated or collaboratively evaluated for milk protein determination in milk and milk products till now, thus it can be recommend to be used this method for protein measurements because of its simplicity, low cost, and potential for high protein selectivity and minimal susceptibility to adulteration.

Key Words: Bromocresol green (BCG), Bromocresol purple (BCP), Kjeldahl, Milk protein ,Protein determination,