




 **Current Issue**

 **Browse Issues**

 **Search**



 **About this Journal**

 **Instruction to Authors**

 **Online Submission**

 **Subscription**

 **Contact Us**



 **RSS Feed**

Acta Medica Iranica

2009;47(4) : 107-109

THE COMPARISON OF CONVENTIONAL AND W.H.O. METHODS FOR PROTEIN DETERMINATION OF CHENOPODIUM ALBUM ALLERGENIC EXTRACT

Taliere Mousavi, M. Movahedi, Nahicl Asadi, A. Farhoudi M. Moin

Abstract:

In present study different protein measurement methods are evaluated on the allergenic extract of *Chenopodium album* pollen, which was previously prepared in our laboratory and applied in skin prick testing in comparison with a commercial extract. The protein content of similar amounts of these two extracts which had caused similar skin reactions were measured with different protein assays such as protein nitrogen unit, Lowry procedure, ultra-violet absorption, and base catalyzed hydrolysis and ninhydrin (B.H.N.). The latter is recommended by World Health Organization (W.H.O.) in order to determine total protein of standard allergenic extracts. Our study indicated some differences between protein amounts measured by the various procedures. According to W.H.O. reports regarding the advantages of B.H.N. assay, due to good correlation with biological activity of allergenic extracts, we also found that this method can indicate the potency of extracts much more precisely.

Keywords:

[Chenopodium album](#) . [protein assay](#) . [allergenic extracts](#)

TUMS ID: 4381

Full Text HTML  Full Text PDF  340 kB

top ▲

[Home](#) - [About](#) - [Contact Us](#)

TUMS E. Journals 2004-2009
Central Library & Documents Center
Tehran University of Medical Sciences

Best view with Internet Explorer 6 or Later at 1024*768 Resolutions