

The amino acid and fatty acid composition of the thermostable lipoprotein ("Antigen 880") of hydatid cyst fluid (HCF).

Abstract:

Analysis for the amino acid composition of "Antigen 880" was carried out by use of double dimension paper chromatography and Biotronik 2,000 automatic amino acid analyzer. By the double dimension paper chromatography, leucine, phenylalanine, tyrosine and alanine were identified as amino acid components of the protein moiety of "Antigen 880". In the Biotronik 2,000 automatic amino acid analyzer showed the concentration of the various amino acids to be as follows: isoleucine, leucine, tyrosine, phenylalanine, lysine and histidine were identified as amino acid constituents of "Antigen 880". Quantitative studies in Biotronik 2,000 analyzer showed the concentration of the various amino acids to be as follows: valine -0.85 mumol/ml; leucine - 0.22 mumol/ml. /ml; iso-leucine - 0.18 mumol/ml; tyrosine - 0.04 mumol/ml, and histidine - 0.02 mumol/ml. The fatty acid composition of the lipid moiety of "Antigen 880" was investigated by use of Gas-Liquid chromatography. In this method, C8:0, C10:0, C12:0, C14:0, C16:0 and C18 were identified as the fatty acid constituents of the lipid moiety of "Antigen 880".