

Aim 44

To Determine the Molecular Weight of Unknown Protein

Introduction

Method of werber and asborne (1968) and laemmli (1970) were followed for determining molecular wt. of polypeptide separated on SDS gel.

Requirements

Protein of known molecular wt. graph paper, scale, gel 14% acrylamide and gel base, protein of unknown molecules weight.

Procedure

- 1) Protein of known molecule weight supplied as Dalton mark VI L sigma were run along the unknown proteins
- 2) The bands were obtained at different positions.
- 3) The relative mobility of these bands are calculated.
- 4) The relative mobility calculated of these stand are protein are plotted against log of the respective molecule weight and calibration curve is obtained is made the basis for determining molecular weight of unknown protein loaded along tracts of standard proteins.

Precautions

- 1) The length of front should be measured exactly as it would other wise affected the Rf value
- 2) The standard protein while loading should be dissolved in desired buffer forming clear solution.