

## **Abstract**

Measurement of serum proteins and the determination of the electrophoresis profile are important diagnostic assistance in clinical biochemistry. The electrophoresis of serum proteins is the used lab test to separate serum proteins based on their size and electric charge. The purpose of this study is to determine the electro psoriasis profile of the serum proteins in small Asian mongoose under the influence of gender. 29 healthy adult mongoose (is male) 14 female were caught from different areas of Sistan plain in the spring of 2016 by trapping method. After bloodletting and isolating blood serum the different fractions of serum protein were indicated using Agarse gel electrophoresis. The results of this study are as follows: total protein in male:  $3.36 \pm 0.04g/dl$  and  $3.66 \pm 0.11g/dl$  in female, albumin in male:  $1.82 \pm 0.14g/dl$  and in famel:  $2.06 \pm 0. g/dl5$  , globulin in male:  $1.54 \pm 0.14g/dl$  and in femal:  $1.60 \pm 0.05g/dl$  ,alpha 1 globulin in male:  $0.09 \pm 0.02 g/dl$  , and in female  $0.53 \pm 0.09 g/dl$  , alpha 2 globulin in male:  $0.55 \pm 0.09g/dl$  and in female  $0.13 \pm .05g/dl$  beta 1 globulin in male  $0.19 \pm .06g/dl$  and in female  $0.17 \pm 0.08g/dl$  , beta 2 globulin in male  $0.20 \pm 0.04g/dl$  and in female:  $0.18 \pm 0.03 g/dl$  , gamma globulin in male:  $0.50 \pm 0.14g/dl$  and in female:  $0.60 \pm 0.01g/dl$  , radio of albumin to female:  $1.20 \pm 0.20g/dl$  and in female:  $1.29 \pm 0.07g/dl$ . Alpha1 and alpha 2 globulin in both sexes are meaning ful but in other cases do not have a meaningful difference. The measured yalues can be considered as the natural pictures of the protein serums of the small Asian mongoose.

**Keywords:** mongoose, serum protein, electrophoresis



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**Thesis for doctorate degree in Veterinary Medicine**

**Serum Electrophoretic Patterns in the Small Asian Mongoo**

**( *Herpestes auropunctatus* )**

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