

Estimation of Uric Acid By Uricase Method on Colorimeter

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Vizle - Estimation of Serum Uric acid in given sample

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- Method – **Uricase Method**

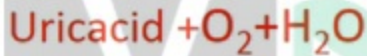
• Other methods

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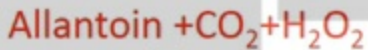
INTRODUCTION

- The catabolism of the purines, adenine and guanine produces **uric acid**. At physiological pH, uric acid is mostly ionized and present in plasma as *sodium urate*.
- The normal serum level of uric acid is **4 to 7 mg per 100 ml**
- An elevated serum urate concentration is known as *hyperuricemia*.

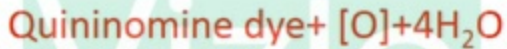
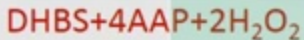
PRINCIPLE



uricase



Peroxidase



Coloured complex

DHBS: Dichloro hydroxy
benzene sulfonic acid



Vizle Procedure

	BLANK	STANDARD	TEST
Uric acid reagent	2 ml	2ml	2ml
Distilled water	0.04ml	---	---
Standard	---	0.04ml	---
Test	---	---	0.04ml



Calculation

Serum Uric acid (mg / dl):

$$= \frac{OD_T - OD_B}{OD_S - OD_B} \times \text{Conc. of Std.}$$

$$= \frac{OD_T - OD_B}{OD_S - OD_B} \times 6$$

Serum uric acid

$$= \underline{\hspace{2cm}} \text{ mg / dl}$$



Result and Conclusion -



Result and Conclusion -

Result- The conc. of serum uric acid in given sample is.....

Conclusion :

By performing uricase method for uric acid estimation the concentration of uric acid in the given sample is __, which is Normal, higher or lower than reference range.

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