



SDI Review Form 1.6

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_49639
Title of the Manuscript:	Investigation of extent of Interaction of Thiobarbituric acid and two selected Amino acids with Three Divalent Metal ions in Aqueous-organic medium at different Temperatures
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>The manuscript titled "Investigation of extent of Interaction of Thiobarbituric acid and two selected Amino acids with Three Divalent Metal ions in Aqueous-organic medium at different Temperatures" concerns formation constants of binary and ternary complexes of thiobarbituric acid as primary ligand and L-tyrosine and L-histidine as secondary ligands, which have been examined in ethanol-water mixture and at ionic strength by potentiometric method. The ligands formed 1:1 binary complex with the metal ions. The primary and secondary ligands simultaneously coordinated to the metal ions to form 1:1:1 ternary complexes. The difference in stability constants of binary and ternary complexes were determined by $\Delta \log K$ and RS%. The stability of the complexes decreased with increase in temperature. The thermodynamic parameters such as Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) accompany the interactions were evaluated.</p> <p>The manuscript is connected with interesting and modern scientific topic of complexes of thiobarbituric acid used as ligands complexed metal ions, the paper is written rather legible English but Authors should corrects the paper due to using of capital letters (i.e. Figure, Table in the text). And from scientific point of view the text is modern enough and interesting. But important is to show the advantages of the designed material to state of art. Finally, the manuscript could be ready for publication in <i>Current Journal of Applied Science and Technology</i> after minor revision.</p>	
Minor REVISION comments		
Optional/General comments		



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PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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