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Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	2014_IRJPAC_9391
Title of the Manuscript:	Development and validation of HPLC-UV method for determination of Bovine Serum Albumin and Myoglobin proteins
Type of the Article	Original Research 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:

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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	In this manuscript, the authors developed and validated a method for determination of Bovine Serum Albumin and Myoglobin proteins using HPLC-UV. In some extent, this work presented in this manuscript is not bad. However, the reviewer have some suggestions as following 1.The method described in the manuscript was focused on detection of two pure proteins, BSA and Myoglobin. But, what is the actual application of this method developed by the author? The author should demonstrate this clearly in manuscript. 2.The reviewer suggested that the author should repeated this method and confirm its sensitivity and specificity in serum or plasma that was added by the two pure proteins in different concentrations.	1+2. This method was used for analysis of a serum sample spiked with the two proteins (Bovine serum albumin and myoglobin) at three concentration levels (50, 300, and 1000 ppm), and good separation was obtained, see Figure 2. I have added this in section 3.1 "method development": <u>figure 2 shows a chromatogram of a serum sample spiked with bovine serum albumin and myoglobin at 50 ppm concentration of each protein, separated using the current developed method.</u> 3. As it is shown in figure 2, this method is specific for determination of the two proteins in serum where the two peaks are good separated (resolution is higher than 3), and the bovine serum albumin (peak 1) is separated from the adjacent peak (which is from the serum sample) with a resolution higher than 3. I have added this in section 3.2.4 (selectivity). Additionally this method is sensitive as the peak areas of the spiked proteins in the serum sample are



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		almost equal to those for peaks in a standard solution of the two proteins.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		