



SDI Review Form 1.6

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	2014_IRJPAC_11921
Title of the Manuscript:	Separation of Palmitic and Palmitoleic Acid using Transition Metal Salts: Part 2
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.

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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	An internal standard should be used for the quantitation of the C16:0/C16:1 ratio in the GC-FID analyses. No such standard was presented in the manuscript and should be included to validate Figure1. Be consistent with the decimal places in tables 1-4. The temperature at which the analyses were done seems to be a critical issue. We only learnt at the end that they were done at room temperature. It should be mentioned earlier. There is a need to know how the separation is affected by a change in temperature, e.g., 5 vs 25 degrees?	An internal standard was used in the GC FID analyses. Information on the internal standard was added to the experimental section and changes were made in figure 1 to reflect this information. Decimal places in table 1-4 were revised to be consistent throughout. Information on the temperature at which the experiments were carried out were added in the "Experimental Details" section.
Minor REVISION comments	Many grammatical mistakes. For example, Pg. 1, line 21, sphingolipids; Pg.4, line 134, 9-cis-hexadecenoic acid, Figure 4, carboxylate. There are many others that need to be corrected.	We did a thorough review to capture and correct spelling and grammatical errors.
Optional/General comments	The molecular modelling in the optimized structure of zinc palmitate/palmitoleate looks fine. However, it is of interest to consider how the optimized structure would look like for the cobalt series? What is the difference in solubility between the Zn and Cu adducts in methanol?	The molecular modelling structures with cobalt were developed and look very similar to those of zinc - the only difference being the bond distance between the cobalt atom and the oxygen atoms of the carboxylic acid is shorter (by ~0.03 Å) as compared to zinc. Exact solubility not known for both adducts. We should have calculated the solubility of individual compound experimentally.