



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_40032
Title of the Manuscript:	PSP toxins in Moroccan shellfish by mouse bioassay, high-performance liquid chromatography and Receptor Binding Assay (2004-2016)
New title of the Manuscript:	Determination of PSP toxins in Moroccan shellfish by MBA, HPLC and RBA methods: Links to causative phytoplankton <i>Alexandrium minutum</i>
Type of Article:	Original research paper

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
General observations: - The manuscript still presents several English problems, especially regarding verbal tenses. Considering that, the study has already been carried out, all information / observations must be written in the <u>past</u>. Some, but not all, sentences were highlighted herein. Please, review all manuscript. - Once again, please provide the statistical analysis. - The name of the species (mussels and algae) should be written in the same way throughout the text. Introduction: In order to be more consistent, use only one term that refers to the toxins (PST or PSP toxins). Line 35- Consider rephrasing. "PSTs are accumulated by shellfish filtering on algae producing toxins, mainly by dinoflagellates belonging to the genus <i>Alexandrium</i>, which may occur in the temperate..." Line 44- "In the aim to protect the consumer of this seafood..." In the aim to protect the consumer from seafood poisoning. Line 47- "The aim of this work is to present..." use the proper verbal tense. Line 49- "Moreover, an investigation of PSP toxin profile is presented..." use the proper verbal tense. Line 52- "This is the first report..." use the proper verbal tense. Materials and Methods: Line 62- "...and solen marginatus form..." <i>Solen marginatus</i>. Be careful with species names. Line 63- "The shellfish of these areas are collected.." use the proper verbal tense. Line 66/67- "286 samples of solen were harvested from 2004 to 2010. Three kg of shellfish were taken at low tide, In parallel, 362 sea water..." Separate the paragraphs with a correct punctuation and provide the correct name of "solen". Line 81- "The mice were injected with 1 ml.." Once again, provide if the administration was by IV, IM or IP injection. Line 82/84- Consider rephrasing. "The mice (3 mice per extract) were observed for 1 h, the mouse weight and mean survival time are used to calculate the toxicities expressed in µg.STX equi./kg by using a conversion factor (0.2)." Line 96- "the sample and the solvent are mixed..." use the proper verbal tense. Line 97- "sample is centrifuged for 5 min..." use the proper verbal tense. Line 98- "the filtrate is ready for analysis by HPLC." Unnecessary phrase. Line 99- "...a hydrolysis of the filtrate is.." use the proper verbal tense. Line 100- "...37 µl of 1M HCl are added and the mixture is mixed..." use the proper verbal tense. Line 103- "The sample is ready for HPLC analysis." Unnecessary phrase. Line 104- "- Chromatography conditions as destripped by Diener..." Use proper	- a statistical analysis used was the correlation coefficient who is the test statistics that measures the statistical relationship between two continuous variables: (HPLC-MBA and RBA and MBA). - the problems in the English language of the article : reviewed



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terminology. Line 107- “40 mM ammonium phosphate, The pH adjusted to 7...” Line 108- “48 mM ammonuim phosphate, The pH is adjusted to 7 with...” Line 110- “The temperature set for the post-column derivatization was 50, a solution containing 10..” Line 122/123- “These analyzes were conducted at the Environment Laboratories of the International Atomic Energy Agency in.” Line 142- “The results of MBA analysis in Agadir’s mussels show that five PST...” use the proper verbal tense. Results and Discussion: Line 203- “...the occurrence and intensity of HAB appears...” What does HAB mean? Provide this information. Line 210/2013- “This species is primarily an inhabitant..” These species are... Line 223/224- “Statistical studies on all bloom of <i>A.minutum</i> highlight the evidence that temperature is a major factor controlling this efflorescence” Provide their reference. Line 283/283- “Figure 9 and figure 10 illustrate respectively the correlation between toxicities of HPLC and MBA and that between RBA and MBA.” This correlation was performed considering which samples? Figure 4 and 6: provide the performed analysis (HPLC or RBA).	Ok HAB: harmful algal blooms an explanatory paragraph is added in the material and methods section For comparaion RBA and MBA The extracts of Agadir’s samples taken during toxics events from 2010 to 2016 (number of samples n=8) were analyzed by MBA and the same samples filtered stored at -20 °C for RBA analysis. Results of two methods were compared by statistical analysis (Mean ratio RSD %, Linear regression slope equation, Pearson correlation coefficient) Fig 4 and 6 provide results of monitoring: PSP toxins analysis by MBA and phytoplankton identification. (this information is mentioned in the text we will add it to the title)
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