

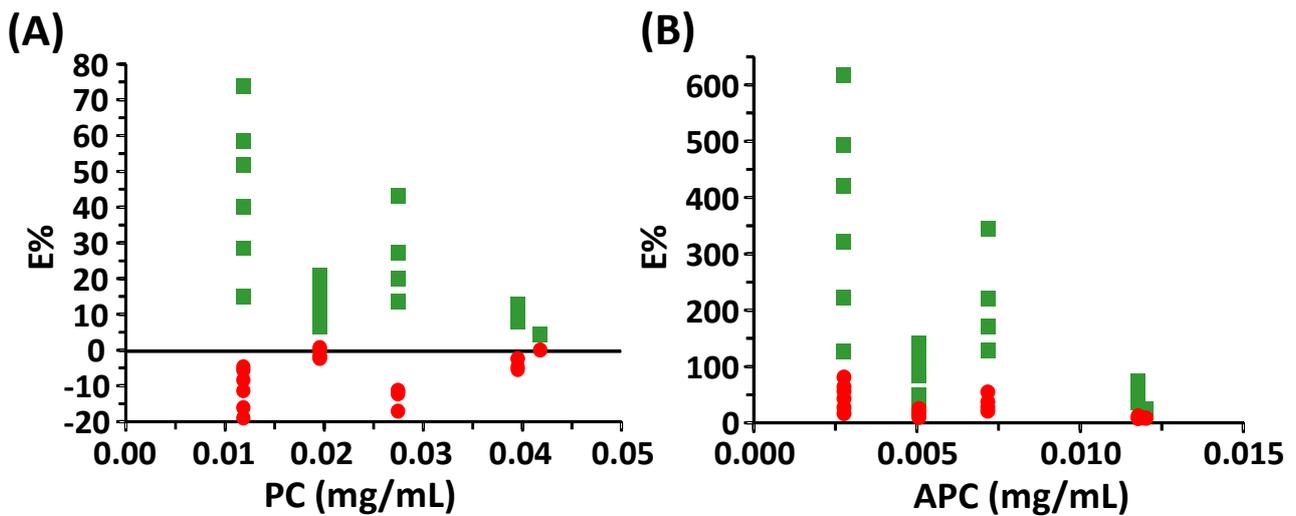
**Chlorophyll *a* interference in phycocyanin and allophycocyanin spectrophotometric quantification**

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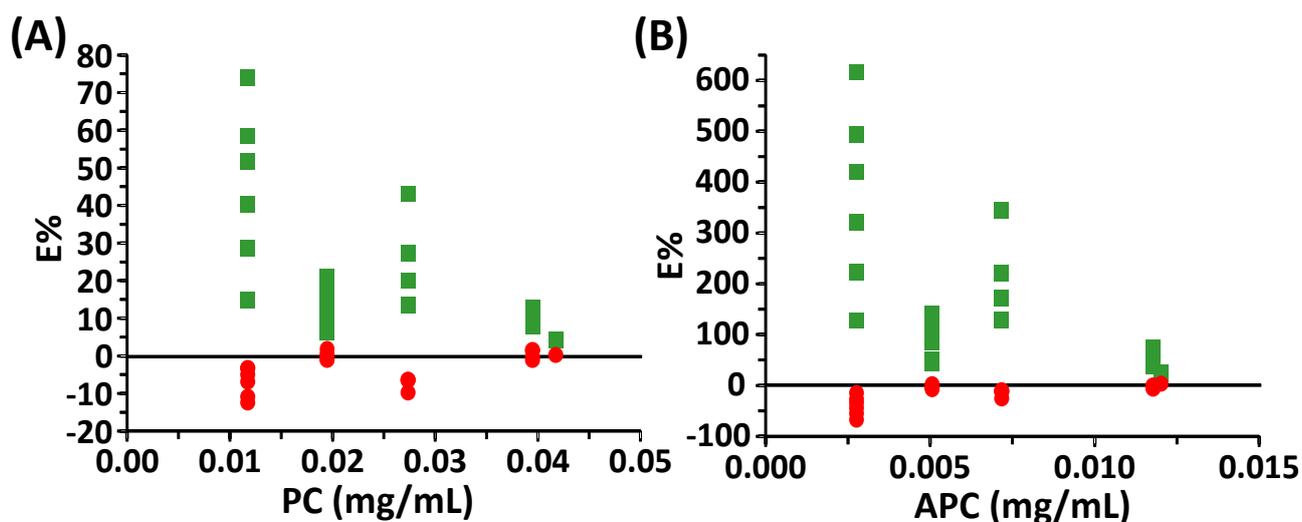
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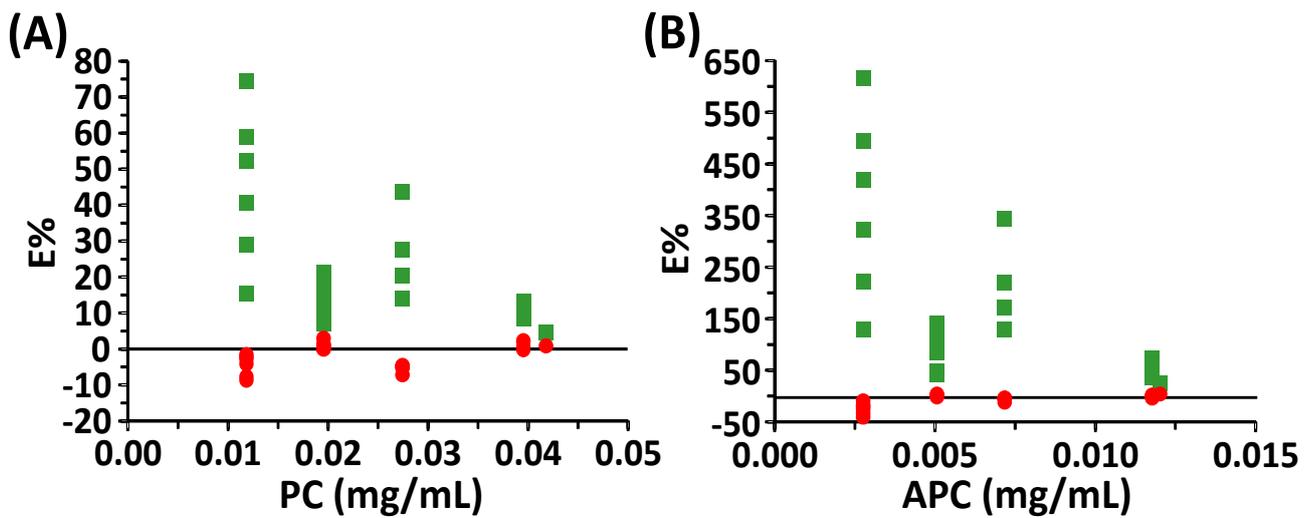
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**Supplementary Fig. 1.** Errors % in PC (A) and APC (B) concentration before and after correcting absorbance at 620 nm and 652 nm with equations:  $A^{620}_{Phs} = 1.014 A^{620}_{measured} - 0.242 A^{675}_{measured}$  and  $A^{652}_{Phs} = 1.035 A^{652}_{measured} - 0.231 A^{675}_{measured}$ . Green bullets refer to E% in phycobiliprotein quantification observed when Bennet and Bogorad equations were directly used without correcting Chla interference. Red bullets refer to E% in phycobiliprotein quantification observed after correcting the absorbance of PC and APC from Chla contribution before applying Bennet and Bogorad equations. After correction the error in phycobiliprotein determination varied from **-19.1% to 0.7% for PC** and from **5.8% to 75.8% for APC**.



**Supplementary Fig. 2.** Errors % in PC (A) and APC (B) concentration before and after correcting absorbance at 620 nm and 652 nm with equations:  $A^{620}_{Phs} = 1.015 A^{620}_{measured} - 0.256 A^{675}_{measured}$  and  $A^{652}_{Phs} = 1.042 A^{652}_{measured} - 0.282 A^{675}_{measured}$ . Green bullets refer to E% in phycobiliprotein quantification observed when Bennet and Bogorad equations were directly used without correcting *Chla* interference. Red bullets refer to E% in phycobiliprotein quantification observed after correcting the absorbance of PC and APC from *Chla* contribution before applying Bennet and Bogorad equations. After correction the error in phycobiliprotein determination varied from **-12.3%** to **1.9%** for PC and from **-69.8%** to **0.5%** for APC.



**Supplementary Fig. 3.** Errors % in PC (A) and APC (B) concentration before and after correcting absorbance at 620 nm and 652 nm with equations:  $A^{620}_{Phs} = 1.014 A^{620}_{measured} - 0.246 A^{675}_{measured}$  and  $A^{652}_{Phs} = 1.041 A^{652}_{measured} - 0.271 A^{675}_{measured}$ . Green bullets refer to E% in phycobiliprotein quantification observed when Bennet and Bogorad equations were directly used without correcting Chla interference. Red bullets refer to E% in phycobiliprotein quantification observed after correcting the absorbance of PC and APC from Chla contribution before applying Bennet and Bogorad equations. After correction the error in phycobiliprotein determination varied from **-9.2% to 2.5% for PC** and from **-42.3% to 1.6% for APC**.