

## Accepted Manuscript

Title: A novel vortex flow reactor for the purification of B-phycoerythrin from *Porphyridium cruentum*

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**Highlights**

- A novel vortex flow reactor was designed and constructed for protein adsorption
- Studies on protein adsorption in the novel vortex flow reactor are reported.
- High recovery yield and protein purity were achieved from the unclarified extract.

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