

**Prebiotic Potential and Value-Added Products Derived from *Spirulina laxissima*
SV001—A Step towards Healthy Living**

ABSTRACT

Lately, microalgae-based value-added products have been gaining market value because they moderate the dependency on fossil fuel and high-value chemical products. To this end, the purpose of this study was to develop prebiotic products from the microalgae *Spirulina* sp. The microalgae were isolated from the fresh water and characterized at the molecular level. The dry biomass, chlorophyll content, phycocyanin, cytotoxicity and antimicrobial and antioxidant properties of the isolated strains were analyzed. Moreover, value-added products like *Spirulina* cake, chocolate, tea, vermicelli and *Spirulina* juice were made for a vulnerable population due to high nutritive value.