
Proteins and Phytic Acid from Waste Rice Bran

Salient features	<ul style="list-style-type: none">➤ Isolation of proteins from deoiled rice bran using enzymes.➤ Efficient extraction and purification of phytic acid from rice bran➤ Phytic acid was isolated as sodium phytate with $85 \pm 5\%$ yield and purity (HPLC) of $90 \pm 2\%$.➤ Crosslinked enzyme aggregates (CLEAs) have better shelf life, and can be used in animal feed with better efficiency.
Advantages	<ul style="list-style-type: none">✓ Production of value added products from agricultural waste✓ Simple processes for production of phytic acid and proteins from deoiled rice bran.✓ Unit operations are easily scalable
Process Technology / product developed by	Dr. Nitin Wasantrao Fadnavis, Department of Natural Products Chemistry CSIR-Indian Institute of Chemical Technology (IICT), Hyderabad, Andhra Pradesh. E mail: fadnavisnw@yahoo.com , fadnavisnw@gmail.com Dr. Surendra Reddy Bathula, Natural Products Chemistry Division, CSIR-IICT, Hyderabad, Andhra Pradesh
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More information	Status of commercialization / Patent / Publication Harini, T., Shalini, B., Rode, H.B., Sheelu, G. and Fadnavis, N. W. 2017. Enzymatic preparation of <i>myo</i> -Inositol from rice bran phytate using phytase immobilized on recyclable polymer support. Asia-Pacific Congress on Catalysis (APCAT-7), Mumbai. Jan. Harini, T., Shalini, B., Rode, H.B. and Fadnavis, N.W. 2018. Crosslinked enzyme aggregates of phytase with soymilk protein. Journal of Biotechnology, 282: 67-69.