

ANC ENZYME SOLUTIONS PTE LTD

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Extractazym NSP

Aqueous Oil Extraction

Background :-

Important advances in the enzymatic degradation of highly complex polysaccharides found in the cell walls of un-lignified (non-woody) plant material has occurred.

These cell walls are composed of cellulose fibers to which strands of hemicellulose are attached. The fibers are embedded in a matrix of pectic substances linked to structural proteins.

The Cellulose, Hemicellulose, Beta-Glucans, Xylans and other Pectic substances are commonly referred to as Non-Starch Polysaccharides (NSP's). The content of cell wall polysaccharides in different plant material varies in composition and quantity, and so the composition of enzyme complexes used in industrial applications must be optimized according to the kind of material to be treated.

Extractazym NSP is an enzyme preparation designed to assist in the breakdown of the NSP complex binding the target extraction product. **Extractazym NSP** is typically tailor made to the substrate **Extractazym NSP** is to be applied to.

Application:-

Extractazym NSP needs to be applied in an aqueous environment with the pH and temperature requirements satisfied. Improved action can be achieved with applications to a pre-ground substrate allowing a greater surface area for enzyme action. A minimum of 30 minutes contact time between the substrate and **Extractazym NSP** prior to further processing is recommended, however, longer periods will generally result in larger extraction yields.

Properties:-

Appearance	White to Off-White Powder
Optimal pH range	5.5 – 8.0
Optimal Temperature	30 to 50°C, 40°C Optimum

Dosage :-

To be determined by application. Typical dosages start at 50-100g/MT substrate.

Storage :-

The product should be kept cool and dry, avoid direct sunlight, close lid after used.