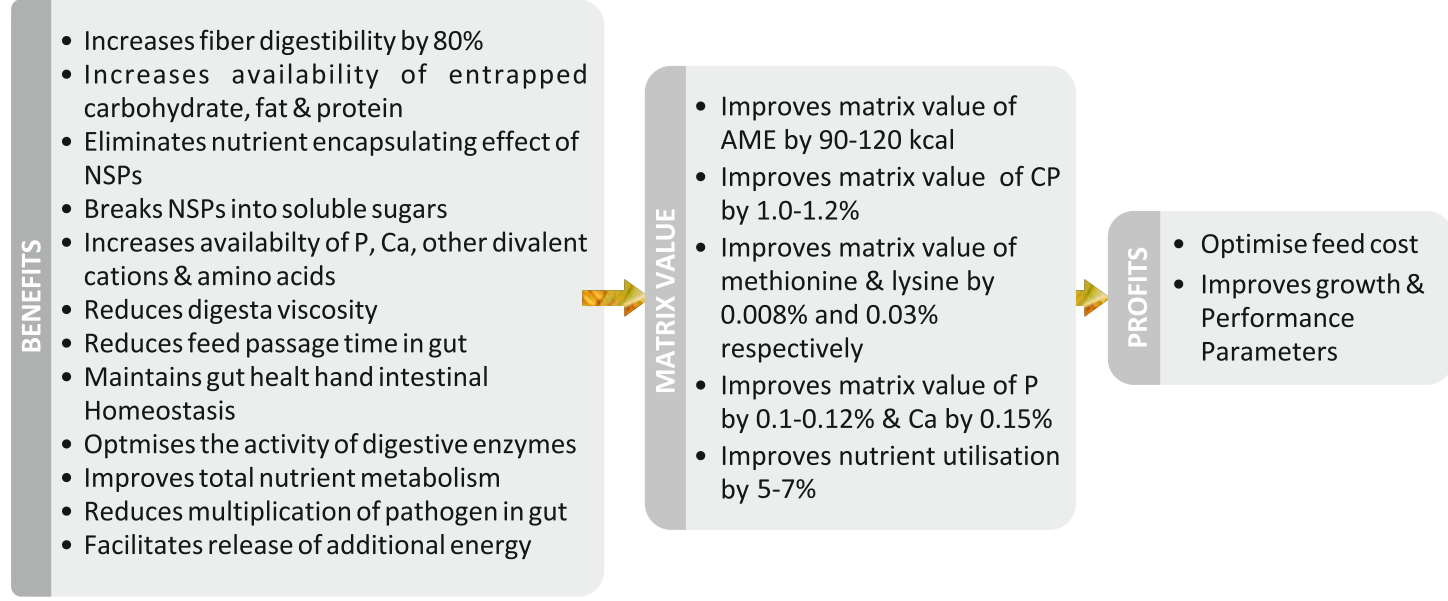


# MAXIZYME EX



## COMPOSITION

Ingredient	Activity/g		
Cellulase	1,50,000 CMCU	Alpha Amylase	70,000 U
Arabinase	2120 U	Lipase	18,000 U
Beta Galactosidase	25,000 U	Phytase	2500 FTU
Beta Mannanase	2,00,000 U	<b>Probiotics</b>	<b>CFU/g</b>
Xylanase	2,80,000 U	<i>Lactobacillus acidophilus</i>	6 X 10 <sup>9</sup>
Protease	7,00,800 U	<i>Saccharomyces baulardii</i>	6 X 10 <sup>9</sup>

## INCLUSION LEVEL

Poultry	Corn - Soy Feed with upto 10% inclusion of alternatives = 250 g/ton of feed Corn - Soy Feed with > 10% inclusion of alternatives = 350 - 500g/ton of complex feed
Swine	350g/ton of feed

\*OR as recommended by nutritionist.

## PRESENTATION

25 KG Drum

# MAXIZYME EX



Unzip your world of possibilities



## ROSSARI BIOTECH LIMITED

(An ISO 9001:2015 & 14001:2015 Certified Company)  
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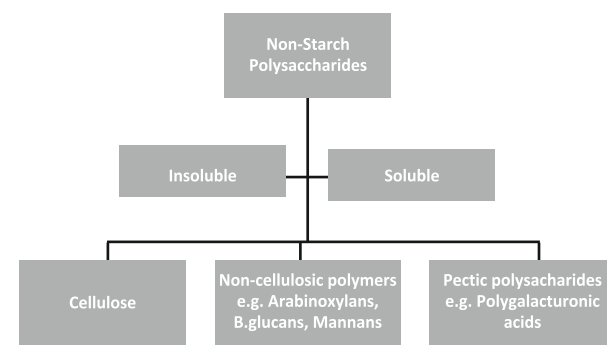


# THERMOSTABLE COCKTAIL ENZYME...

Approximately two billion tonnes of cereal grains and 140 million tonnes of legumes and oil seeds are produced throughout the world each year, which yield an estimated 230 million tonnes of fibrous material as part of a variety of by-products. Going with these handsome figures, the food production seems static relative to the increasing world population.

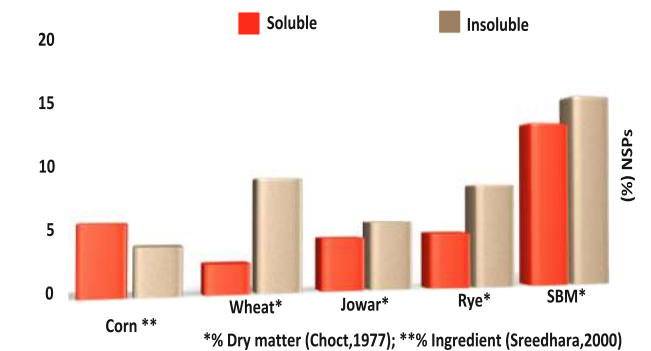
## CHALLENGES IN POULTRY INDUSTRY

Feed production	Nutrition
<ul style="list-style-type: none"> <li>Raw material prices have shown a steep rise and have more than doubled since past few years</li> </ul>	<ul style="list-style-type: none"> <li>Birds have the ability to utilise 75-80% of nutrients</li> </ul>
<ul style="list-style-type: none"> <li>Corn and soy are the major choice for poultry feed and thereby compete with human food Chain</li> </ul>	<ul style="list-style-type: none"> <li>Nutrient wastage is attributed to complex substrate in feed, which includes:                             <ul style="list-style-type: none"> <li>Digestible nutrients like protein, starch and lipids</li> <li>Non digestible energy rich components include NSPs like Xylans, Mannans, Cellulose, Pectins, etc.</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>Energy and protein cost contributes more than 90% to feed production cost</li> </ul>	<ul style="list-style-type: none"> <li>These non-digestible substrate are component of plant cell wall and act like a cage to keep nutrients in locked up form</li> </ul>



CLASSIFICATION OF NSPs

Percentage of soluble & insoluble NSPs in selected ingredients



The insoluble NSP make up the bulk of the total fibre in diets, but they have little or no effect on nutrient utilisation in poultry. Instead, soluble NSPs are of major concern.

## Anti-nutritive effects of soluble NSPs

Viscosity	<ul style="list-style-type: none"> <li>Increases the gut digesta viscosity by interacting with the glycocalyx of the intestinal brush border and thicken the rate limiting unstirred water layer of the mucosa, which reduces the efficiency of nutrient absorption through the intestinal wall</li> </ul>
Modification of gut physiology	<ul style="list-style-type: none"> <li>Modifies endogenous secretion of water, proteins, electrolytes and lipids</li> <li>Changes in gut are characterised by enlargement of the digestive organs, increased secretion of digestive juices, accompanied by a decrease of nutrient digestion.</li> <li>NSP binds bile salts, lipids and cholesterol where it negatively influences lipid metabolism.</li> <li>Brings major changes in gut dynamics with poor overall efficiency in nutrient assimilation.</li> </ul>
Interaction with gut microflora	<ul style="list-style-type: none"> <li>Increases the residence time of digesta in the intestine.</li> <li>This facilitates proliferation of facultative &amp; obligatory anaerobes in lower gut. e.g. Clostridia</li> <li>It leads to production of toxins &amp; deconjugation of bile salts essential for the digestion of fat.</li> </ul>

# MAXIZYME EX

## Enzymes & Probiotics in Maxizyme EX compliment each other leveraging total nutrient metabolism

The unique formulation of Maxizyme EX improves digestion & absorption of complex nutrients mediated by the synergistic effect of probiotic and highly active cocktail enzymes, thereby prevents feedback inhibition effect on enzymes. This further potentiates enzyme efficacy. Furthermore, better digestion and absorption by Maxizyme EX helps in managing feed cost effectively.

