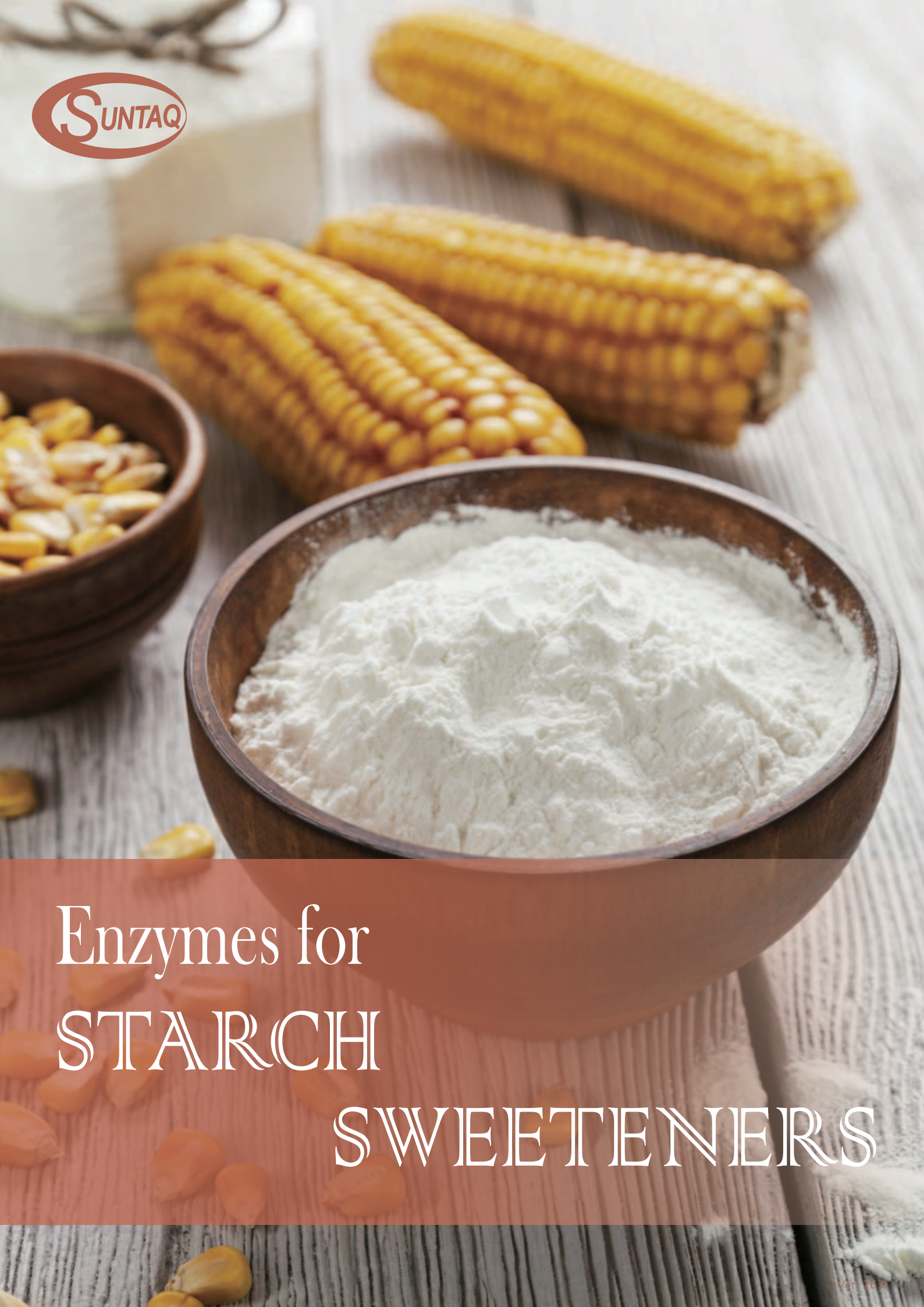


SUNTAQ

Enzymes for STARCH SWEETENERS

Ver. 2.0



Starch Sweeteners ENZYMES

Product	Enzyme	Dosage
Grainzyme Plus	Cellulase	20-60 mL/ton grain
Grainzyme Yield	Xylanase & Beta-glucanase	50-100 mL/ton grain
SQzyme HSAL	Alpha-amylase	400-800 mL/ton starch
LiqueStar 220	Alpha-amylase	150-300 mL/ton starch
LiqueStar 2.0	Alpha-amylase	100-250mL/ton starch
SQzyme BAL	Bacterial amylase	100-300 mL/ton starch
SQzyme AGL	Glucoamylase	500-800 mL/ton starch
Fermentase L	Glucoamylase	200-350 mL/ton starch
Pulluzyme Pro	Glucoamylase & Pullulanase	400-550mL/ton starch
Pulluzyme Ultra	Glucoamylase & Pullulanase	400-520 mL/ton starch
SQzyme BTA	Beta-amylase	300-2000mL/ton starch
SQzyme FAL	Fungal amylase	200-500 mL/ton starch
Debranzyme X	Pullulanase	50-300 mL/ton starch
SQfiltrase	Lipase	15-30mL/ton syrup



Function and Performance

Process	Product	Advantages and Benefits
Fiber Separation	Grainzyme Plus	Tailor-made enzyme for corn wet-milling, efficient viscosity reduction, less production cost, improved production capacity and yield
Gluten Separation	Grainzyme Yield	NSP enzymes specifically for wheat gluten separation process Improved production capacity and gluten yield
Liquefaction	SQzyme HSAL	Classical heat-stable alpha-amylase with well product stability
	SQzyme BAL	Concentrated bacterial alpha-amylase, efficient liquefaction at low temperature
	LiqueStar 220	Perfect alpha-amylase, superior viscosity reduction with high concentration and low dosage
	LiqueStar 2.0	Excellent alpha-amylase working at extremely high temperature and low pH
Saccharification	SQzyme AGL	Classical Glucoamylase with stable performance
	Pulluzyme Pro	Compound glucoamylase and pullulanase with great process stability and higher dextrose conversion
	Pulluzyme Ultra	Compound glucoamylase and pullulanase with great performance and faster dextrose conversion
	SQzyme FAL	Classic fungal amylase for medium concentration of maltose syrup production
	SQzyme BTA	Highly concentrated beta-amylase, extract from soybean without seasonal restriction
	Debranzyme X	High concentrated debranching enzymes with low dosage
Filtration	SQfiltrase	Concentrated phospholipase for improving syrup filtration speed

Suntaq Solutions for Starch Sweeteners

	Specification	Products
Glucose syrup	DX 95-97%	LiqueStar 220 and Pulluzyme Pro
Maltose syrup	42-52%	LiqueStar 220 and SQzyme FAL or SQzyme BTA
	⩾55%	LiqueStar 220, Debranzyme X and SQzyme BTA
Others		Tailor-made solutions to meet your requirements.

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