

## Supplementary Material

**Table S1.** Function of enzymes (from Novozymes Biotechnology Company)

Enzymes	Component name	Activity	Fuction
Cellulast BG	endo-Glucanase	3500 EGU/g	hydrolyze (1,4)- $\beta$ -D-glucosidic linkages in cellulose and other $\beta$ -D-glucans
Fungamyl 2500 SG	$\alpha$ -Amylase	2500 FAU-F/g	hydrolyze (1,4)- $\alpha$ -D-glucosidic linkages in starch polysaccharides
Pentopan Mono BG	Xylanase (endo-1,4-)	2500 FXU-W/g	hydrolyze (1,4)- $\beta$ -D-xylosidic linkages in xylans

EGU – Endo-Glucanase Units; FAU – Fungal Amylase Units; FXU – Fungal

Xylanase Units.

**Table S2.** Description of experimental factors at two level

Factor	(A) $\alpha$ – Amylase	(B) Xylanase	(C) Cellulase
Regular	-	-	-
Control	0	0	0
F1	-1	-1	-1
F2	1	-1	-1
F3	-1	1	-1
F4	1	1	-1
F5	-1	-1	1
F6	1	-1	1
F7	-1	1	1
F8	1	1	1

Amylase (-1, 1) – (6 ppm, 10 ppm); Xylanase (-1, 1) – (70 ppm, 120 ppm);

Cellulase (-1, 1) – (35 ppm, 60 ppm).