

Supplementary Table 1 Optimization of enzymatic hydrolysis of cellulose obtained from *Gelidiella acerosa* and whatman filter paper (WFP) cellulose

Optimization of enzyme dosage							
Substrate	Enzyme	Temperature and time		Reducing sugar (mg/g)			
Cellulose	Cellulase 22086 (v/v)	45 °C & 24 h					
	1%			340±6.3			
	2%			840±5.2			
	5%			785±5.8			
Optimization of hydrolysis period							
Substrate	Enzyme	Temperature	Reducing sugar (mg/g) over hydrolysis period				
Cellulose	Cellulase 22086 (2%v/v)	45 °C	12 h	24 h	36 h	48 h	60 h
			403±5.5	849±4.1	920±5.0	810±3.9	NS
WFP			529±5.9	607±6.9	807±4.9	865±5.9	938±4.9

WFP- Whatmann Filter Paper Cellulose, NS- not studied

