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LIST OF ABBREVIATIONS

ANOVA	Analysis of variance
CCD	Central composite design
¹³ C- NMR	Carbon nuclear magnetic resonance
C/N ratio	Carbon to nitrogen ratio
DCW	Dry cell weight
DMSO	Dimethyl sulfoxide
DSC	Differential scanning calorimetry
¹ H- NMR	Proton nuclear magnetic resonance
NA	Nutrient agar
NB	Nutrient broth
NMR	Nuclear magnetic resonance
OD	Optical density
PBS	Polybutylene succinate
PHAs	Polyhydroxyalkanoates
PHB	Polyhydroxybutyrate
PLA	Polylactic acid
rDNA	Ribosomal deoxyribonucleic acid
RNA	Ribonucleic acid
RSM	Response surface methodology
SSJ	Sweet sorghum juice
T _g	Glass transition
TGA	Thermo gravimetric analysis
TISTR	Thailand Institute of Scientific and Technological Research
TKN	Total Kjedal Nitrogen
T _m	Melting temperature
TOC	Total organic carbon
Y _{p/s}	Product yield coefficient on substrate consumption
Y _{x/s}	Biomass yield coefficient on substrate consumption