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LIST OF ABBREVIATIONS

Ala	Alanine
CaO	Calcium Oxide
DD	Degree of deacetylation
DI	Deionize
DMEM	Dulbecco's modified eagle medium
GAG	Glycosaminoglycan
Gly	Glycine
НА	Hydroxyapatite
NaOH	Sodium Hydroxide
NH ₄ H ₂ PO ₄	Ammonium Dihydrogen Phosphate
OD	Optical density
PBMC	Peripheral blood mononuclear cell
PBS	Phosphate buffer saline
SDS-PAGE	Sodium Dodecyl Sulfate Polyacrylamide gel electrophoresis
SEM	Scanning Electron Microscopy
Ser	Serine Chiang Mai University
UTM	Universal testing machine
XRD	X-ray diffraction
kDa	Kilo dalton