

Abbreviations

μ moles	Micromoles
μ g	Microgram
μ l	Microlitre
$^{\circ}$ C	Degree celsius
ACP	Acid phosphatase
ACTH	Adrenocorticotropic hormone
ALP	Alkaline phosphatase
ANOVA	Analysis of Variance
AOAC	Association of the official analytical chemists
ASC	Acid soluble collagen
BSA	Bovine serum albumin
BSE	Bovine spongiform encephalopathy
CFA	Complete Freund's Adjuvant
CHCA	α -cyano-4-hydroxycinnamic acid
cm	Centimeter
CM-Cellulose	Carboxy methyl-Cellulose
COX	Cyclooxygenases
cP	Centipoise
CRP	Creatinine phosphatase
CuSO ₄	Copper sulphate
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DAPI	4',6-diamidino-2-phenylindole
DH	Degree of hydrolysis
DMSO	Dimethyl sulphoxide
DNA	Deoxy ribo nucleic acid
ECM	Extra cellular matrix
EDTA	Ethelene diamine tetra acetic acid
EGF	Epidermal growth factor
ELISA	Enzyme linked immunosorbent assay
ERKs	Extracellular signal-regulated kinases

FBS	Foetal bovine serum
FCP	Fish collagen peptide
FGF	Fibroblast growth factor
FITC	Fluorescein isothiocyanate
FMD	Foot-and-mouth disease
FTIR	Fourier Transform Infrared Spectroscopy
FU	Fluorophore Units
g	Grams
GAG	Glycosaminoglycans
Gy	Gray (unit)
H ₂ SO ₄	Sulphuric acid
HCl	Hydrochloric acid
HEPES	4-(2-hydroxyethyl)-1-piperazine ethanesulfonic acid
HPLC	High performance liquid chromatography
K ₂ SO ₄	Di potassium sulphate
KBr	Potassium bromide
kDa	Kilo Dalton
Kg	Kilogram
KOH	Potassium hydroxide
L	Litre
M	Molar
MALDI-TOF MS	Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry
mg	Milligram
min	Minutes
mL	Millilitre
mm	Millimeter
MMPs	Mitogenactivated protein Kinases
MTT	3-(4, 5-dimethylthiazolyl-2)-2,5- diphenyltetrazolium bromide
Na ₃ VO ₄	Sodium ortho vandate
NaCl	Sodium chloride
NaF	Sodium fluoride

NaOH	Sodium hydroxide
NP-40	Nonyl phenoxy polyethoxy ethanol
ns	Nano seconds
NSAIDS	Non-steroidal anti-inflammatory drugs
OA	Osteoarthritis
OD	Optical density
PBS	Phosphate buffered saline
PDC	Pepsin digestible collagen
PDGF	Platelet-derived growth factor
PFA	Para formaldehyde
PGE2	Prostaglandin E2
PGHS	prostaglandin G/H synthase 1
PMNL	Polymorpho nuclear leukocytes
PP	Protease from bovine pancreas
rpm	Revolution per minute
RA	Rheumatoid arthritis
RMSE	Root mean square error
RNA	Ribo nucleic acid
ROS	Reactive oxygen species
RSM	Response Surface Methodology
SD	Standard deviation
SDS	Sodium dodecyl sulphate
SGOT	Serum glutamate oxaloacetate transaminase
SGPT	Serum glutamate pyruvate transaminase
TEMED	Tetramethylethylenediamine
TGF	Transforming growth factor
TNBS	2, 4, 6-trinitrobenzenesulfonic acid
TNF	Tumor necrotic factor
TSE	Transmissible spongiform encephalopathy
UV	Ultraviolet