

LIST OF ABBREVIATIONS

2D-GE - Two-dimensional gel electrophoresis

AEC - Apical epithelial cap

AKT - Protein kinase B

ANOVA - Analysis of variance

APS - Ammonium persulfate

BCIP/NBT- 5-bromo-4-chloro-3-indolyl phosphate/ nitro blue tetrazolium

BL - Blastema

BMP - Bone morphogenetic proteins

bp - base pair

BSA - Bovine serum albumin

CBB - Coomassie brilliant blue

C-CAMP- Center for Cellular and Molecular Platforms

CPCSEA-Committee for the Purpose of Control and Supervision of Experiments on Animals

DF - Differentiation

dpa - Days post-amputation

DTT - Dithiothreitol

ECM - Extra cellular matrix

EGF - Epidermal growth factor

ESI - Electrospray ionisation

FGF-2 - Fibroblast growth factor 2

hpa - Hours post amputation

HPLC - High performance liquid chromatography

hr - hour/(s)

IAA - Iodoacetamide

IAEC - Institutional Animal Ethics Committee

IEF - Iso-electric focusing

IL - interleukin

IPG - Immobilised pH gradient strip

KRT - Keratin

LC-MS/MS- liquid chromatography mass spectrometry/mass spectrometry

MALDI-TOF- matrix assisted laser desorption/ionisation time-of-flight mass spectrometer

MAPK - Mitogen-Activated Protein Kinase
min - Minute
MLC - Myosin light chain
MMP - Matrix metalloproteinase
NBT - Nitro blue tetrazolium
PBS - Phosphate buffered saline
PBST - Phosphate Buffered Saline-Tween-20
qPCR - Quantitative PCR
RA - Retinoic acid
Reg - Regenerated
RT - Room temperature
RT-PCR-Reverse-transcriptase PCR
SDS-PAGE- Sodium dodecyl sulphate-polyacrylamide gel electrophoresis
Shh - Sonic hedgehog
TEMED- *N,N,N',N'*-Tetramethylethane-1,2-diamine
TGF - Transforming growth factor
TIMP - Tissue inhibitor of matrix metalloproteinase
TNF - Tumor necrosis factor
Tris - Tris(hydroxymethyl) aminomethane
WE - Wound epithelium
Wnt - Wingless type