

DAFTAR ISI

	Halaman
HALAMAN JUDUL.....	i
HALAMAN PENGESAHAN.....	ii
LEMBAR PERNYATAAN.....	iii
PRAKATA.....	iv
DAFTAR ISI.....	vi
DAFTAR TABEL.....	viii
DAFTAR GAMBAR.....	ix
DAFTAR LAMPIRAN.....	x
DAFTAR SINGKATAN.....	xi
INTISARI.....	xii
ABSTRACT.....	xiii
BAB I PENDAHULUAN	
I.1. Latar Belakang.....	1
I.2. Perumusan Masalah.....	6
I.3. Tujuan Penelitian.....	6
I.4. Keaslian Penelitian.....	7
I.5. Manfaat Penelitian.....	8
BAB II TINJAUAN PUSTAKA	
II.1. Anatomi Ginjal.....	10
II.2. Fisiologi Ginjal.....	12
II.3. Gagal Ginjal Kronik.....	15
II.4. Fibrosis Ginjal.....	16
II.5. Fibroblast dan Myofibroblast Ginjal.....	18
II.6. <i>Transforming growth factor</i> - β 1 (TGF- β 1) dan Snail.....	22
II.7. Ekstrak Daun Yakon.....	24
II.8. Landasan Teori.....	28
II.9. Kerangka Teori.....	30
II.10. Kerangka Konsep.....	31
II.11. Hipotesis.....	31
BAB III METODE PENELITIAN	
III.1. Jenis dan Rancangan Penelitian.....	32
III.2. Variabel Penelitian.....	32
III.3. Definisi Operasional.....	32
III.4. Alat dan Bahan Penelitian.....	33
III.5. Jalannya Penelitian.....	35
III.6. Analisis Hasil.....	44
III.7. Kesulitan dalam Penelitian.....	45
BAB IV HASIL PENELITIAN DAN PEMBAHASAN	
IV.1. Hasil Penelitian.....	46
IV.1.1. Karakteristik hewan coba.....	46
IV.1.2. Jumlah fibroblast.....	46
IV.1.3. Fraksi area myofibroblast.....	49
IV.1.4. Ekspresi TGF- β 1.....	52
IV.1.5. Ekspresi Snail.....	53

IV.2. Pembahasan.....	55
BAB V PENUTUP	
V.1. Kesimpulan	62
V.2. Saran	62
DAFTAR PUSTAKA	85

DAFTAR TABEL

Tabel 1. Klasifikasi gagal ginjal.....	16
Tabel 2. Jumlah sampel perkelompok perlakuan.....	46

DAFTAR GAMBAR

Gambar 1. Letak anatomi ginjal.....	10
Gambar 2. Struktur luar dan dalam ginjal.....	11
Gambar 3. Ginjal dan nefron.....	13
Gambar 4. Asal Usul Fibroblast.....	19
Gambar 5. Asal myofibroblast pada fibrosis ginjal	20
Gambar 6. Tahapan pada fibrosis ginjal	21
Gambar 7. Proses transkripsi gen.....	23
Gambar 8. Tanaman yakon terdiri daun, bunga, dan akar.	25
Gambar 9. Kerangka teori.....	30
Gambar 10. Kerangka konsep	31
Gambar 11. Diagram batang Hasil analisis fibroblast	47
Gambar 12. Gambaran mikroskopis ginjal dengan pewarnaan PDGFR.....	48
Gambar 13. Diagram batang Hasil analisis myofibroblast	50
Gambar 14. Gambaran mikroskopis ginjal dengan pewarnaan α -SMA	51
Gambar 15. Gambaran <i>band</i> ekspresi gen TGF- β 1 dan GAPDH.....	52
Gambar 16. Diagram batang rata-rata ekspresi gen TGF- β 1	53
Gambar 17. Gambaran <i>band</i> ekspresi gen Snail dan GAPDH	54
Gambar 18. Diagram batang rata-rata ekspresi gen Snail.....	54

DAFTAR LAMPIRAN

Lampiran 1. Surat Keterangan Kelaikan Etik (<i>Ethical Approval</i>)	92
Lampiran 2. Surat keterangan uji tumbuhan	93
Lampiran 3. Analisis Uji Normalitas	94
Lampiran 5. Analisis Statistik Uji <i>One-way Anova</i> dan <i>Post hoc</i> LSD	94

DAFTAR SINGKATAN

CKD	: <i>chronic kidney disease</i>
ECM	: <i>Extracellular matrix</i>
PDGF	: <i>Platelet derived growth factors beta-1</i>
PBS	: <i>Phosphate-Buffered Saline</i>
TGF- B1	: <i>Transforming growth factor-β1</i>
ESRD	: <i>end-stage renal disease</i>
EMT	: <i>epithelial to mesenchymal transition</i>
SN	: <i>Subtotal nefrectomi</i>
GFR	: <i>glomerular filtration rate</i>
α-SMA	: <i>alpha smooth muscule actin</i>
Smad	: <i>Small mother against decapentaplegic</i>
FOS	: <i>Fruktooligosakarida</i>
STLs	: <i>seskuiiterpene lactones</i>
ACE	: <i>angiotensin converting enzim</i>
RT-PCR	: <i>Reverse Transcriptase- Polymerase Chain Reaction</i>
eGFR	: <i>Estimated glomerular filtration rate</i>
VPF	: <i>vascular permeability factor</i>
VSMC	: <i>extra-domain A of fibronectin</i>
EndMT	: <i>endothelial to mesenchymal transition</i>
NBF	: <i>Normal Buffer Formalin</i>
DAB	: <i>diaminobenzidine</i>
DEPC	: <i>dietlpyrocarbonate</i>
NADPH	: <i>Nicotinamide Adenine Dinucleotide Phosphate</i>
TBE	: <i>Tris-Borate EDTA</i>
NO	: <i>Nitric Oxide</i>
FGF-2	: <i>fibroblast growth factor 2</i>
MCP-1	: <i>Monocyte Chemoattractant Protein 1</i>
TNFα	: <i>Tumor Necroting Factor-α</i>
SN	: <i>Subtotal Nefrectomi</i>
αSMA	: <i>α Smooth Muscle Actin</i>