DAFTAR ISI

PERNYATAAN .................................................................................................................. i
ABSTRAK ........................................................................................................................... ii
ABSTRACT ........................................................................................................................... iii
KATA PENGANTAR ........................................................................................................... iv
UCAPAN TERIMAKASIH ....................................................................................................... v
DAFTAR ISI ........................................................................................................................ vii
DAFTAR TABEL ................................................................................................................... ix
DAFTAR GAMBAR ............................................................................................................... x
DAFTAR LAMPIRAN ............................................................................................................ xi

BAB I PENDAHULUAN ...................................................................................................... 1

1.1 Latar Belakang Penelitian .......................................................................................... 1
1.2 Pembatasan Masalah ............................................................................................... 3
1.3 Tujuan Penelitian ..................................................................................................... 3
1.4 Manfaat Penelitian ................................................................................................... 4
1.5 Struktur Organisasi Skripsi ................................................................................... 4

BAB II TINJAUAN PUSTAKA ........................................................................................... 6

2.1 Anemia Defisiensi Besi (ADB) .................................................................................. 6
2.2 Akibat Defisiensi Besi .............................................................................................. 7
2.2.1 Gejala Defisiensi Besi .......................................................................................... 8
2.2.2 Penyebab Defisiensi Besi ................................................................................... 9
2.3 Zat Besi .................................................................................................................... 12
2.4 Hati Sapi ................................................................................................................ 13
2.5 Mikroenkapsulasi ................................................................................................... 14
2.5.1 Metode Freeze Dryer ......................................................................................... 16
2.5.2 Gum Arab ........................................................................................................... 18
2.5.3 Maltodekstrin .................................................................................................. 19
2.6 Fortifikasi ................................................................................................................ 20
2.6.1 Fortifikasi Menggunakan Zat Besi ................................................................. 21
2.7 Surimi ...................................................................................................................... 22
2.8 Mutu Surimi .......................................................................................................... 24
2.9 Ikan Kurisi ............................................................................................................. 25
2.10 Atomic Absorbition Spectroscopy (AAS) ............................................................. 26
2.11 Scanning Electron Microscope (SEM) .................................................................. 28

BAB III METODOLOGI PENELITIAN ............................................................................ 30

3.1 Waktu dan Lokasi Penelitian ............................................................................... 30
3.2 Alat dan Bahan ...................................................................................................... 30
3.2.1 Alat ................................................................................................................... 30
3.2.2 Bahan .............................................................................................................. 30

Lia Heryanti, 2016
FORTIFIKASI SURIMI IKAN KURISI (Nemipterus nematophorus) DENGAN ZAT BESI MIKROKAPSUL HATI SAPI
Universitas Pendidikan Indonesia | repository.upi.edu | perpustakaan.upi.edu
3.3 Tahapan Penelitian .......................................................... 30
3.4 Bagan Alir Penelitian ....................................................... 31
3.5 Prosedur Penelitian .......................................................... 32
   3.5.1 Mikroenkapnsulasi Hati Sapi ........................................ 32
   3.5.2 Proses Pembuatan Surimi .............................................. 32
   3.5.3 Analisis Surimi Ikan Kurisi .......................................... 34
   3.5.4 Fortifikasi Surimi Menggunakan Mikrokapsul Hati Sapi ....... 35
   3.5.5 Karakterisasi ............................................................... 35
      3.5.5.1 Pengukuran Kandungan Zat Besi ......................... 35
      3.5.5.2 Uji Sensori .......................................................... 35
      3.5.5.3 Rendemen Mikrokapsul ........................................ 35
      3.5.5.4 Analisis Mikroskopik ............................................ 36
      3.5.5.5 Efisiensi Mikroenkapnsulasi .................................. 36

BAB IV HASIL DAN PEMBAHASAN ............................................ 37
   4.1 Hasil Produksi Mikrokapsul Hati Sapi ............................. 37
      4.1.1 Pembuatan Tepung Hati Sapi ..................................... 37
      4.1.2 Mikroenkapnsulasi Hati Sapi ..................................... 38
   4.2 Hasil Karakterisasi Mikrokapsul .................................... 40
      4.2.1 Hasil Penentuan Rendemen Mikrokapsul .................. 40
      4.2.2 Hasil Perhitungan Efisiensi Mikroenkapnsulasi ............ 40
      4.2.3 Hasil Analisis Mikroskopik Mikrokapsul Hati Sapi ....... 41
   4.3 Produksi Surimi Ikan Kurisi .......................................... 42
   4.4 Hasil Analisis Surimi Ikan Kurisi .................................. 43
   4.5 Fortifikasi Surimi Ikan Kurisi Menggunakan Mikrokapsul Hati Sapi  .................................................... 45
      4.5.1 Hasil Analisis Kandungan Zat Besi .......................... 45
      4.5.2 Hasil Uji Sensori Surimi Terfortifikasi ..................... 47

BAB V KESIMPULAN DAN SARAN .............................................. 50
   5.1 Kesimpulan .................................................................. 50
   5.2 Saran ............................................................................. 50

DAFTAR PUSTAKA ................................................................. 52

LAMPIRAN ............................................................................. 56