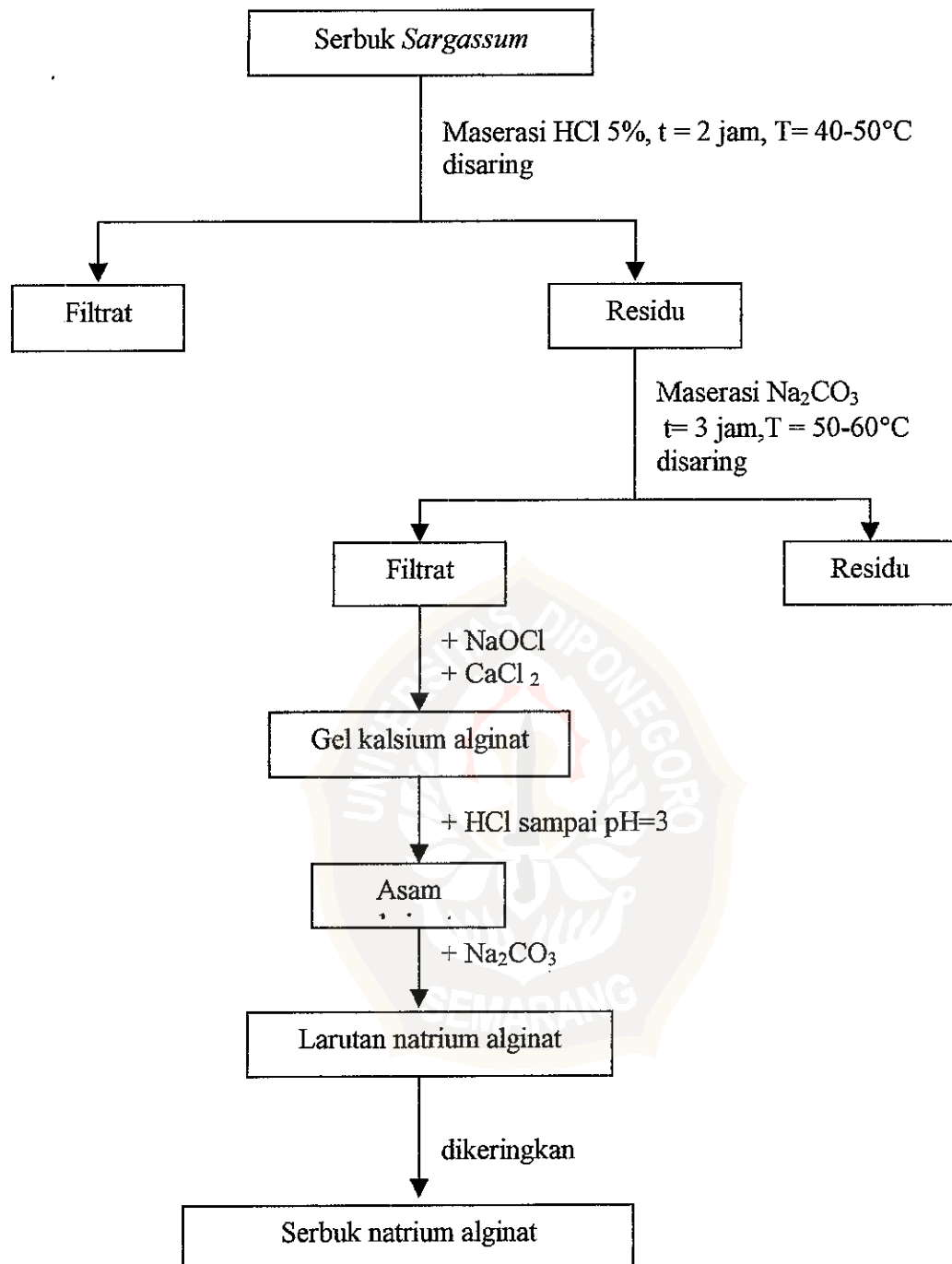
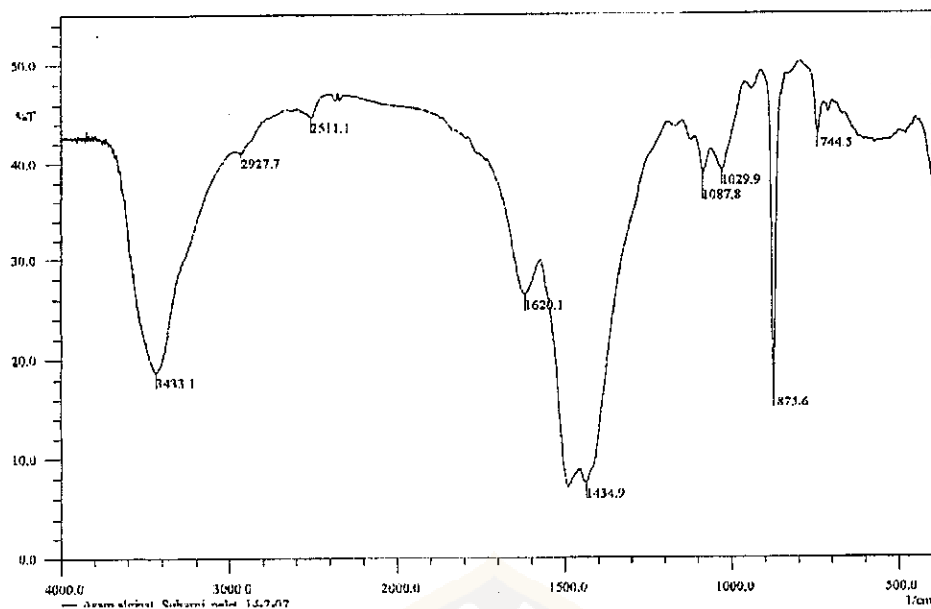
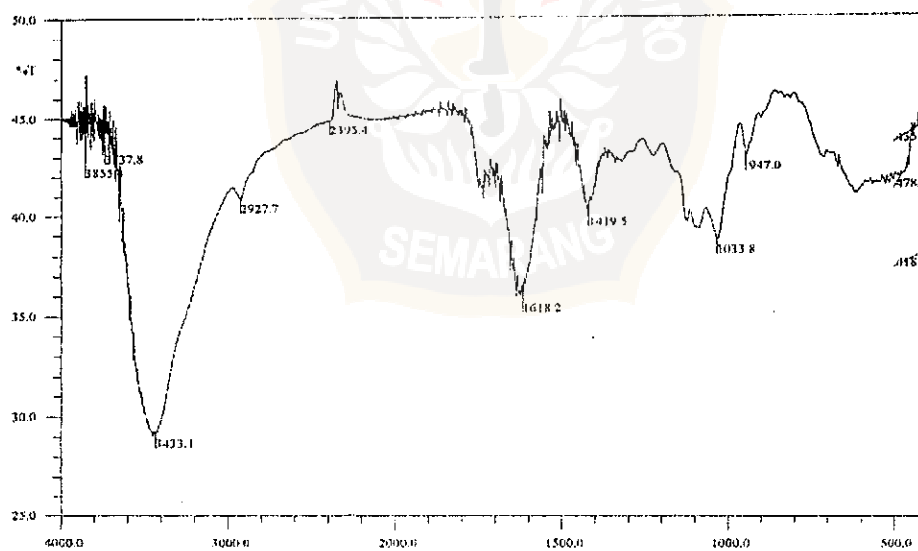


Lampiran 1. Isolasi Alginat

Lampiran 2. Spektra IR

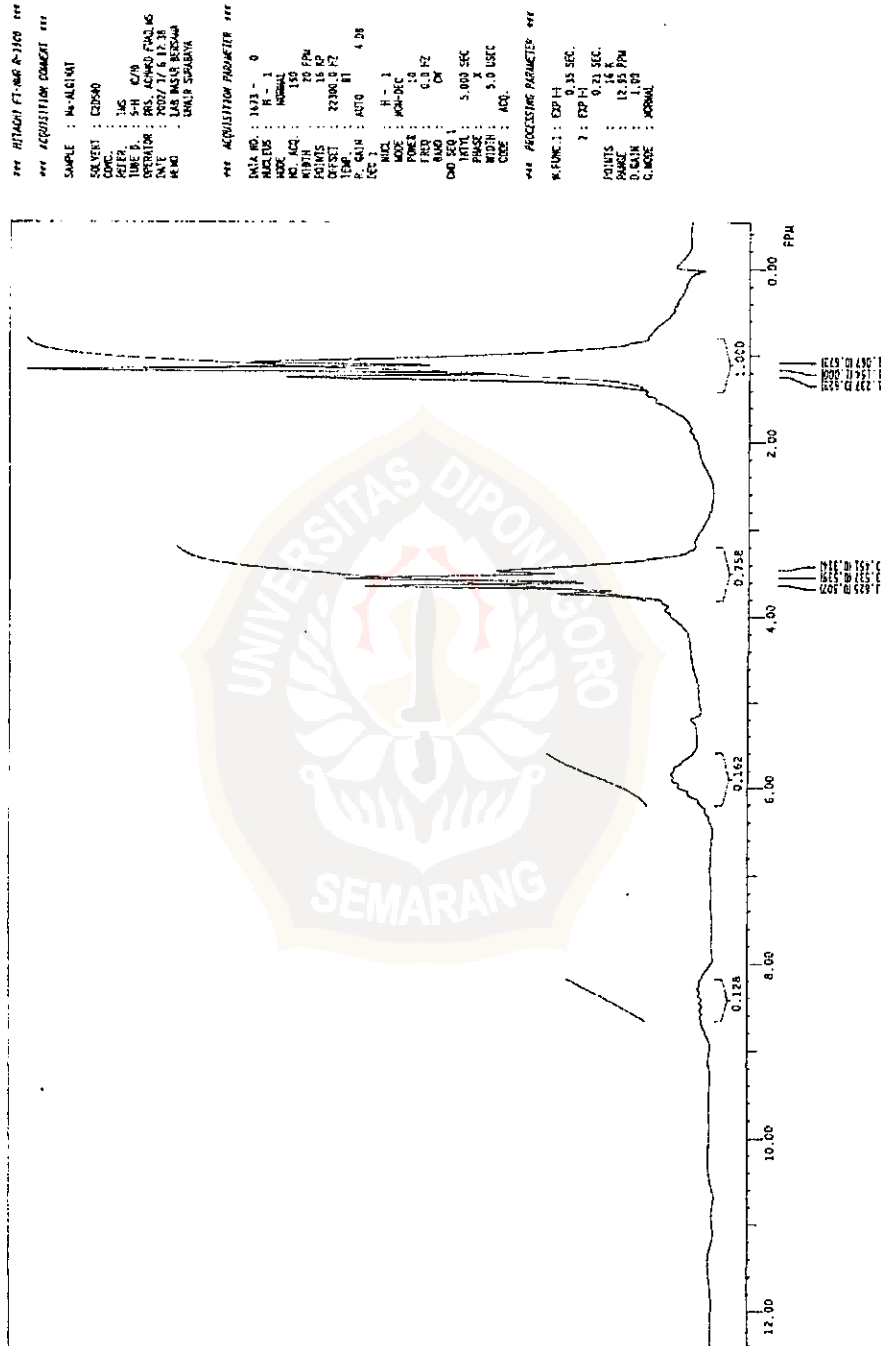


Spektra IR alginat dari *Sargassum sp.*

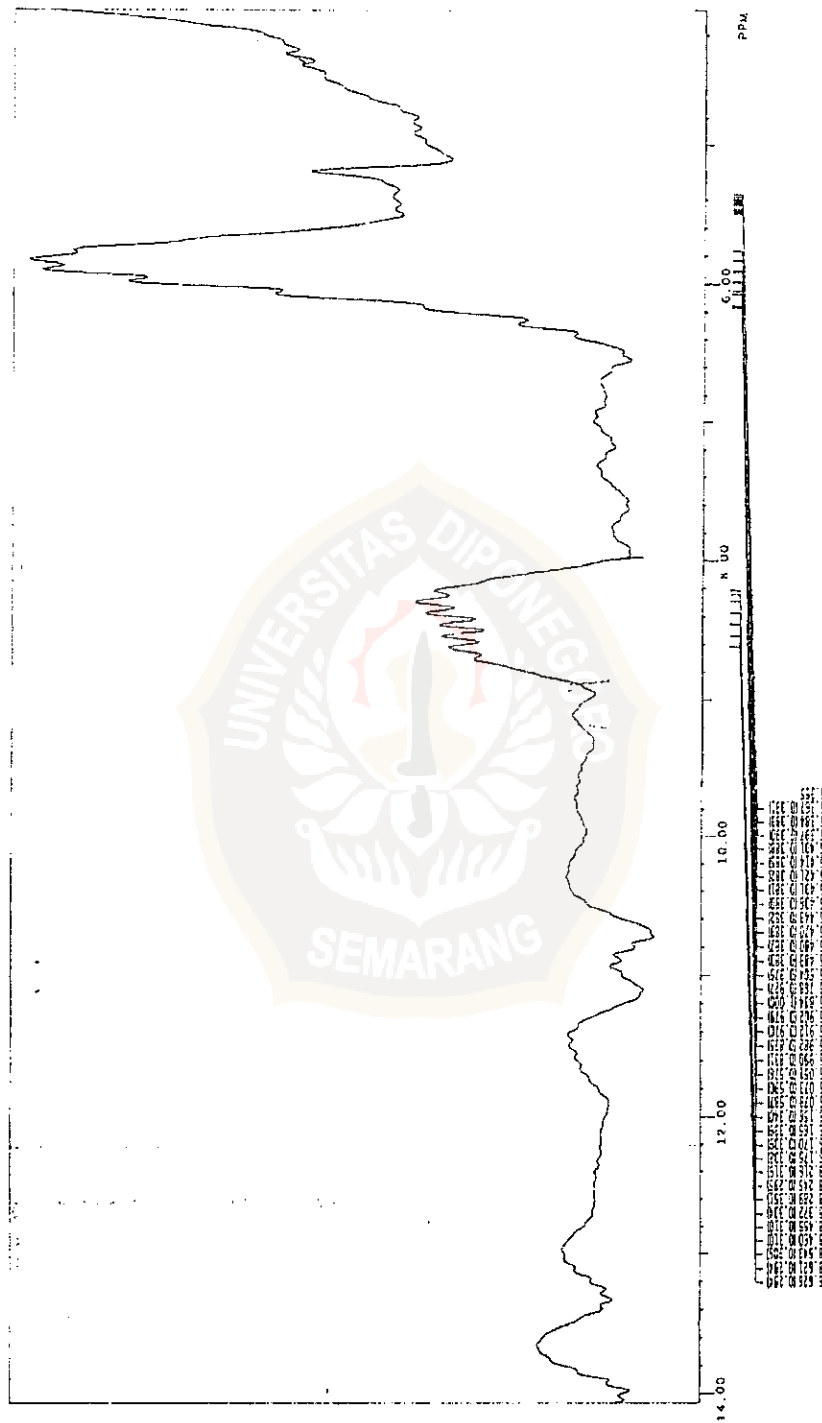


Spektra IR alginat dari *Padina australis*

Lampiran 3. Spektra NMR ¹H Alginat



Spektra NMR ^1H (Perbesaran)



Lampiran 4

Pergeseran Kimia ^1H dan ^{13}C untuk inti Polisakarida

^1H	$\delta(\text{ppm})$	^{13}C	$\delta(\text{ppm})$
CH_3C	~ 1,5	CH_3C	~15
CH_3CON	1,8 – 2,1	CH_3COH	20 – 30
CH_3CO_2	2,0 – 2,2	CH_3CO_2	38
$\text{CH}(\text{NH})$	3,0 – 3,2	CH_2C	55 – 61
CH_3O	3,3 – 3,5	CH_3O	58 – 61
H-2 sampai H-6	3,5 – 4,5	$\text{CH}(\text{NH})$	60 – 65
H-5	4,5 – 4,6	CH_2OH	65 – 75
H-1 ax	4,5 – 4,8	C-2 sampai C-5	80 – 75
H – $\text{C}(\text{OH})_2$	5,2	C – X^b	80 – 87
HO	5,0 – 5,4	C-1 (ax-O, red)	90 – 95
H-1 (eq)	5,3 – 5,8	C-1 (eq-O, red)	95 – 98
HCO_2	5,9	C-1 (ax-O, glik)	98 – 103
		C-1 (eq-O, glik)	103 – 106
		C-1 (fur)	106 – 109
		COOH	174 – 175
		C = O	175 - 180

ax: aksial, eq: equatorial, red: reduksi, glik: glikosida, fur: furanosil

b: inti ^{13}C nonanomerik yang terlibat dalam ikatan glikosida

(Sumber: Aspinal, G.O, 1982, *The Polysaccharide*, vol 1, Academic Press, New York)