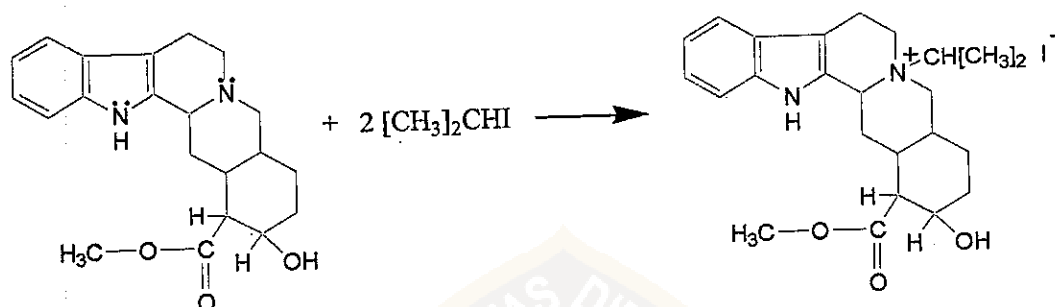


Lampiran A

Perhitungan Rendemen

Sintesis Garam N-Isopropil Yohimbinium Iodida



0,2013 gram

354,5 g/mol

0,5678 mmol

0,1929 gram

170,01 g/mol

1,1356 mmol

0,2979 gram

524,51 g/mol

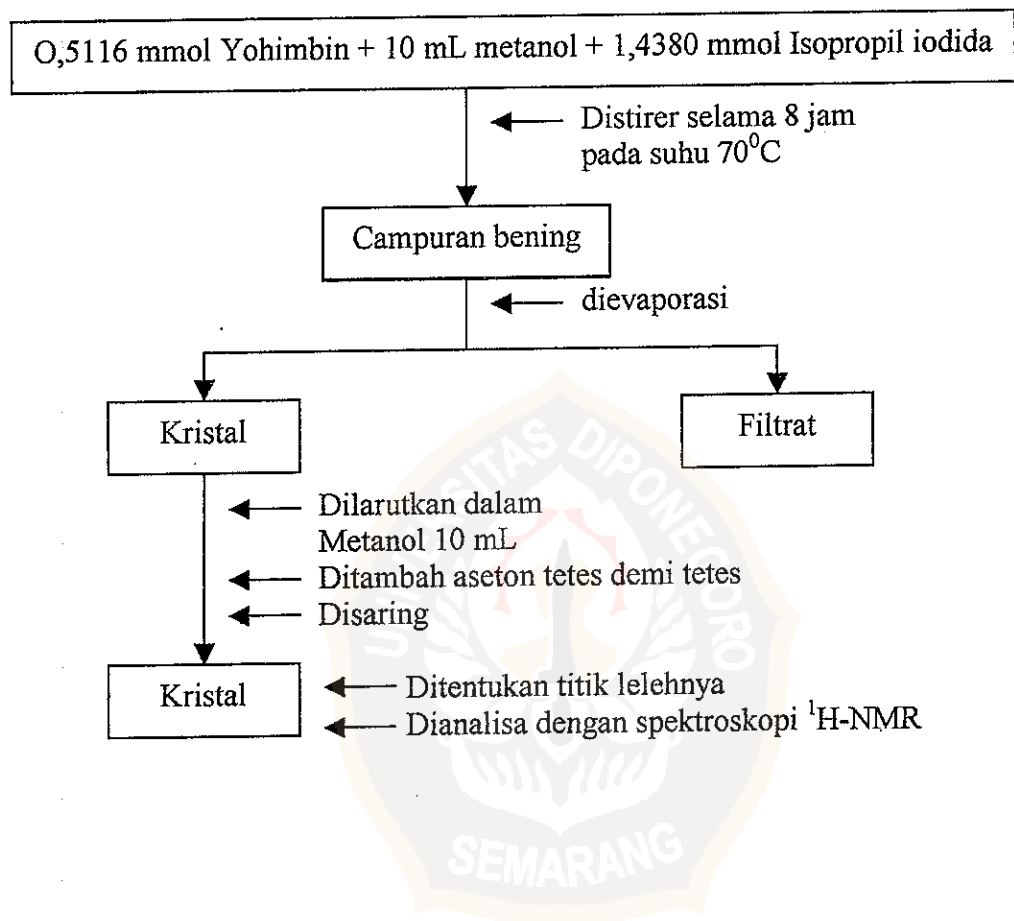
0,5678 mmol

Berat hasil = 0,1882 g

Rendemen, $\frac{0,1882g}{0,2979g} \times 100 \% = 63,2 \%$

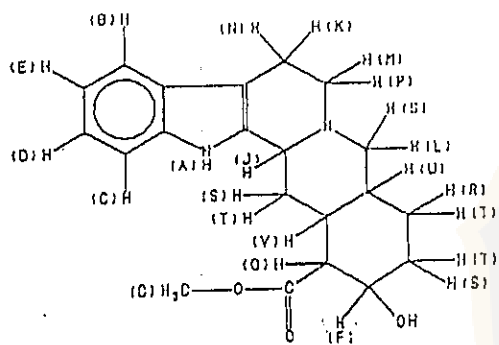
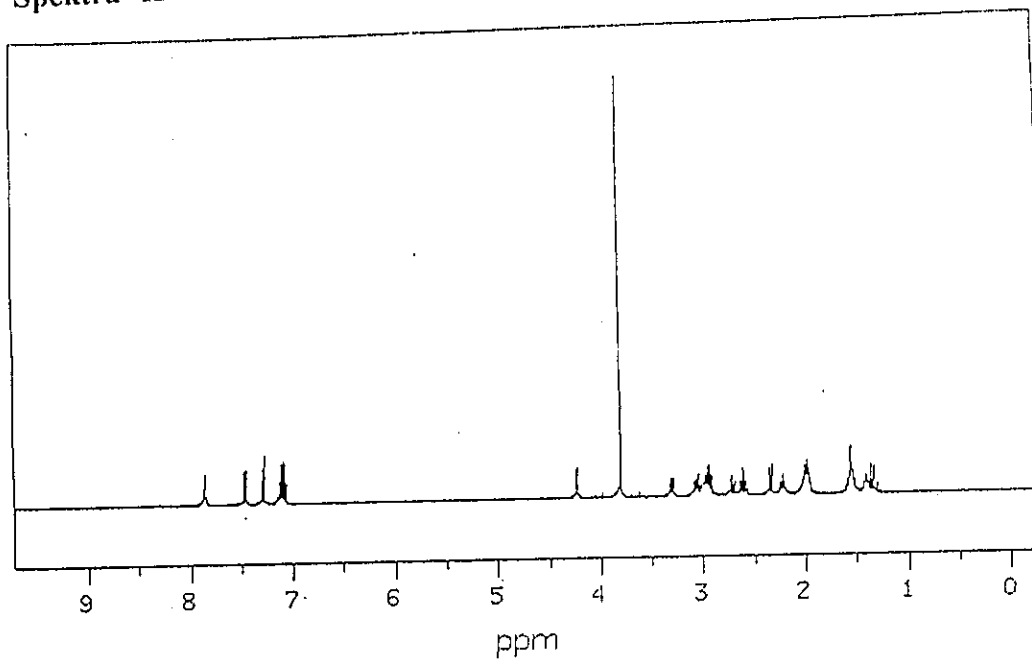
Lampiran B

Skema Kerja



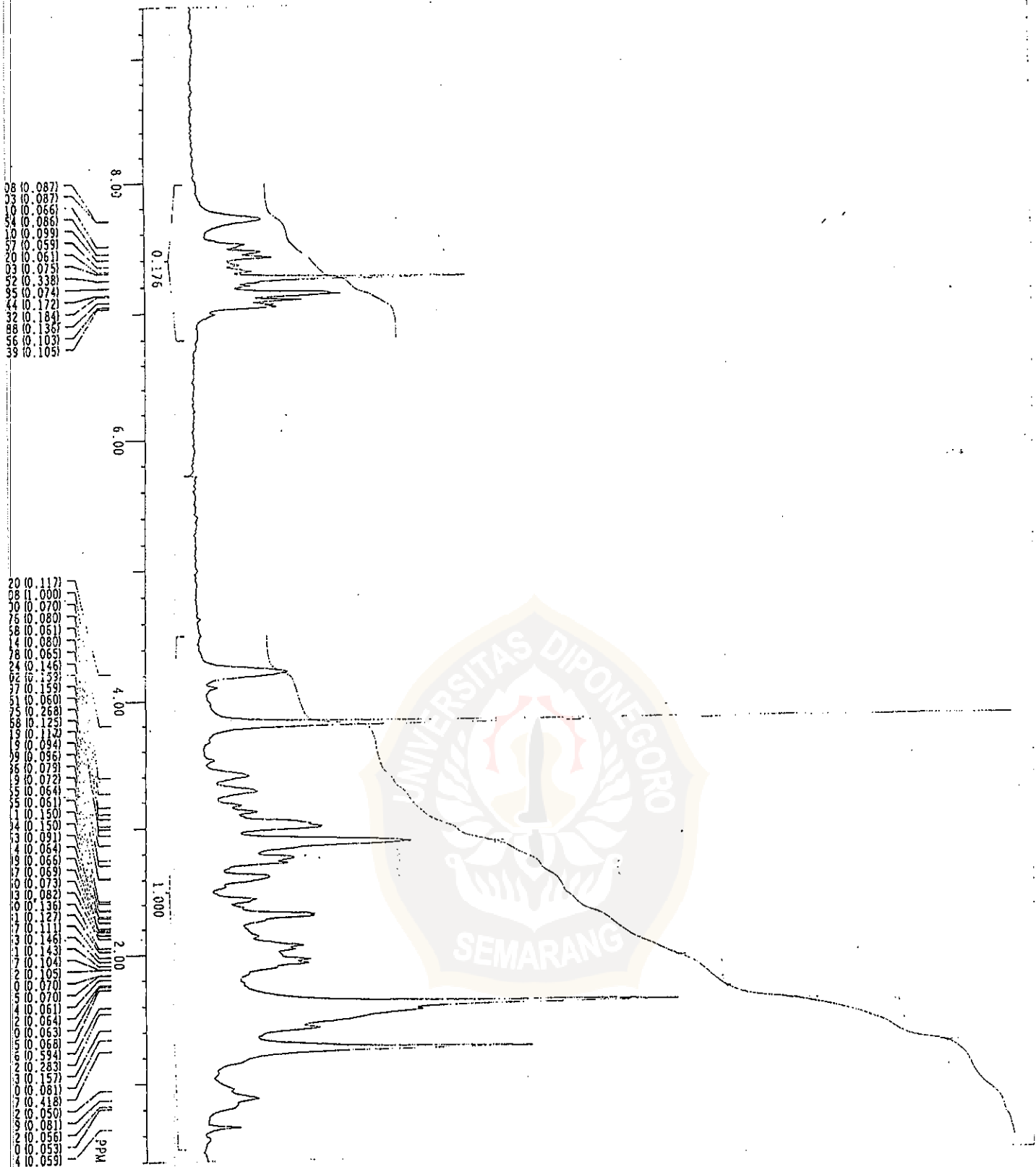
Lampiran C

Spektra ¹H-NMR Yohimbin



Assign.	Shift (ppm)
A	7.86
B	7.46
C	7.29
D	7.12
E	7.02
F	4.22
G	3.80
J	3.30
K	3.07
L	2.98
M	2.93
N	2.71
P	2.61
Q	2.34
R	2.23
S	2.00
T	1.56
U	1.42
V	1.35

Spektra ¹H-NMR Garam Yohimbin



08 10.0877
 03 10.0877
 10 10.0666
 04 10.0866
 10 10.0999
 07 10.0599
 20 10.0611
 03 10.0751
 52 10.0338
 95 10.0744
 44 10.1721
 32 10.1841
 88 10.1367
 56 10.1033
 35 10.1051

20 10.1177
 08 11.0000
 30 10.0700
 75 10.0800
 58 10.0611
 14 10.0800
 78 10.0651
 24 10.1466
 62 10.1333
 37 10.1591
 51 10.0600
 75 10.2681
 68 10.1251
 19 10.1177
 09 10.0944
 99 10.0966
 36 10.0791
 93 10.0721
 55 10.0644
 55 10.0811
 14 10.1500
 23 10.0911
 44 10.0644
 19 10.0666
 69 10.0733
 03 10.0821
 20 10.1366
 06 10.1277
 33 10.1111
 07 10.1466
 10 10.1433
 10 10.1051
 10 10.0700
 10 10.0611
 10 10.0644
 10 10.0633
 10 10.0681
 10 10.5944
 10 10.2833
 10 10.1577
 10 10.0811
 10 10.4181
 10 10.0500
 10 10.0811
 10 10.0566
 10 10.0533
 10 10.0591

*** HITEMU F1-MR R-1900 ***
 *** ACQUISITION COMMENT ***
 SAMPLE : YOHIMBIN
 SOLVENT : CDCl3
 CONC. :
 REFER : TMS
 TUBE D. : 5-H C/RI
 OPERATOR : M. BUDYANTO
 DATE : 2003/07/22 11:16
 MEMO : LAB DASAR BERSAMA
 UNAIR SURABAYA

*** ACQUISITION PARAMETER ***
 DATA NO. : 2021 - 0
 NUCLEUS : H - 1
 MODE : NORMAL
 NO. ACQ. : 100
 WIDTH : 20 PPM
 POINTS : 16 KP
 OFFSET : 22300.0 Hz
 TEMP. : 51
 R. GAIN : AUTO 32 DB
 DEC 1

NUC1 : H - 1
 MODE : NON-DEC
 POWER : 10
 FREQ : 0.0 Hz
 BAND : CM
 CUP SEQ 1
 1STW : 5.000 SEC
 PHASE : X
 WIDTH : 6.0 USEC
 CODE : ACQ.

*** PROCESSING PARAMETER ***
 W.FUNC 1 : EXP F1
 0.81 SEC.
 2 : EXP F1
 0.72 SEC.
 POINTS : 16 K
 RANGE : 9.00 PPM
 D. GAIN : 1.00
 G. MODE : NORMAL