

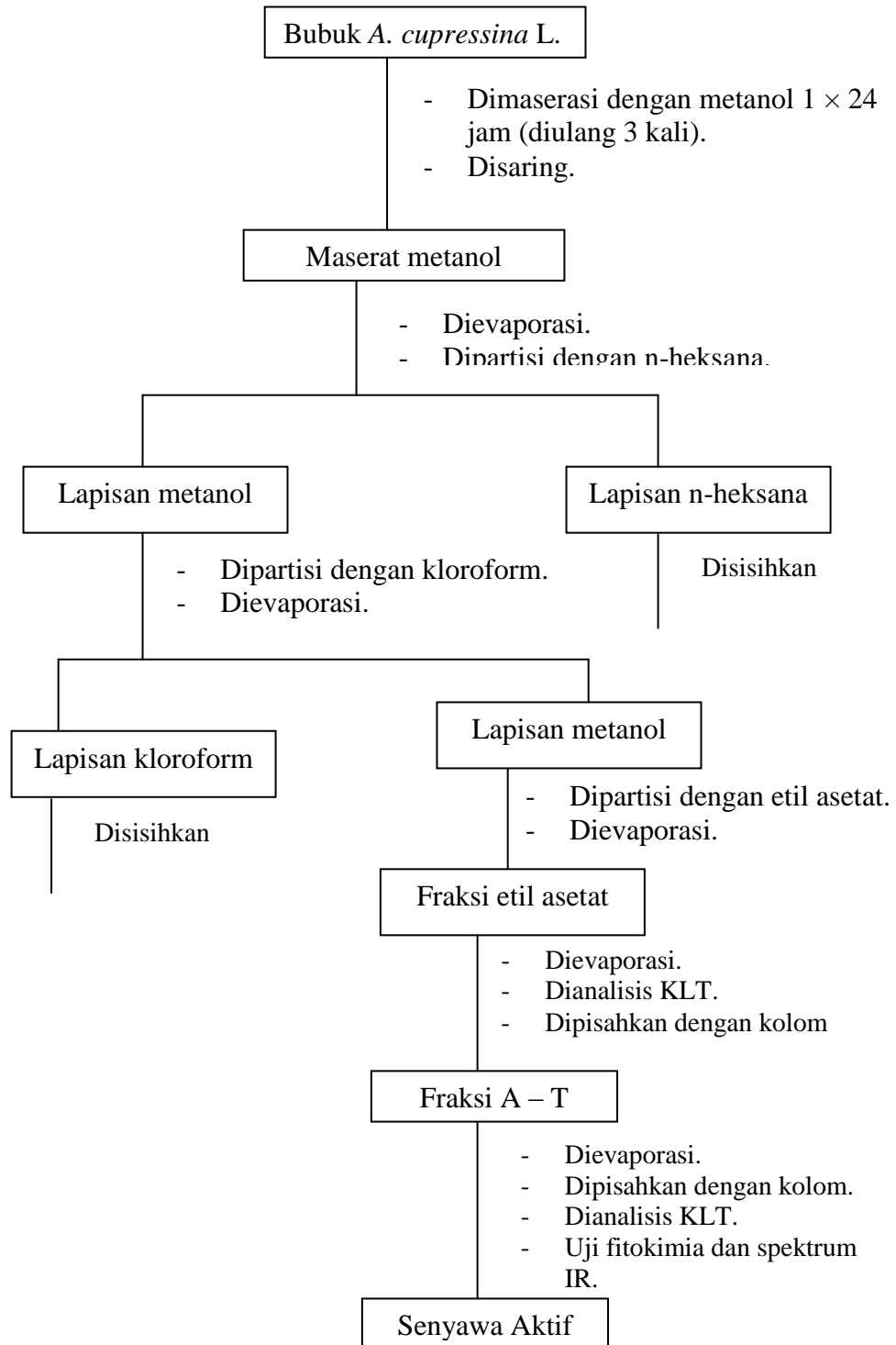
DAFTAR PUSTAKA

- Ahuja, J., Suresh, J., Deep, A., Madhuri., Pratyusha., dan Ravi., 2011, Phytochemical Screening of Aerial Parts of *Artemisia parviflora* Roxb.: A medicinal plant, *Der Pharmacia Lettre*, **3** (6) : 116 – 124.
- Andrews, J. M., 2001, Determination of Minimum Inhibitory Concentrations, *J. Antimicrob. Chemother.* **48** : 5 – 16.
- Beress, Laszlo, 1982, Biologically Active Compounds From Coelenterates, *Pure & Appl. Chem.* **54** (10) : 1981 – 1994.
- Blunt, J. W., Copp, B. R., Hu, Wan-Ping, Munro, M. H. G., Northcote, P. T., dan Prinsep, M. R., 2007, Marine Natural Products, *Nat. Prod. Rep.* **24** : 31 – 86.
- Bohlin, L., Göransson, U., Alsmark, C., Wedén, C. dan Backlund, A., 2010, Natural Products in Modern Life Science, *Phytochem Rev.* 2010 **9**(2) : 279–301.
- Carballo, J. L., Hernández-Inda, Z. L., Pérez, P., dan García-Grávalos, M. D., 2002, A comparison between two brine shrimp assays to detect *in vitro* cytotoxicity in marine natural products, *BMC Biotechnology* **2** : 17
- Corgiat, J. M., 1993, Marine Natural Products Chemistry: Investigation in Marine Ecology and Structure Determination, dissertation, University of Hawaii.
- de Oliviera, J. H. H. L., Selegim, M. H. R., Timm, C., Grube, A., Köck, M., Nascimento, G. G. F., Martins, A. C. T., Silva, E. G. O., de Souza, A. O., Minarini, P. R. R., Galetti, F. C. S., Silva, C. L., Hajdu, E., dan Berlinck, R. G. S., Antimicrobial and Antimycobacterial Activity of Cyclostelletamine Alkaloids from Sponge *Pachychalina sp.* 2006, *Mar. Drugs* 2006, **4**: 1 – 8.
- Daly, M., Brugler, M. R., Cartwright, P., Collins, A. G., Dawson, M. N, Fautin, D. G., France S. C., McFadden, C. S, Opresko, D. M., Rodriguez, E., Romano, S. L., dan Stake. J. L., 2007, The Phylum Cnidaria: A Review of Phylogenetic patterns and Diversity 300 Years After Linnaeus, *Zootaxa* 1668: 128.
- Demain, A. L., 1999, Pharmaceutically Active Secondary Metabolites of Microorganisms, *Appl. Microbiol. Biotechnol.* **52** : 455 – 463.
- Fenical, W., 1996, Marine Biodiversity and the Medicine Cabinet – The Status of New Drugs from Marine Organisms, *Oceanography* **9**(1) : 23 – 27.
- Firn, R. D., dan Jones, C. G., 2003, Natural Products – A Simple Model To Explain Chemical Diversity, *Nat. Prod. Rep.*, **20** : 382 – 391.

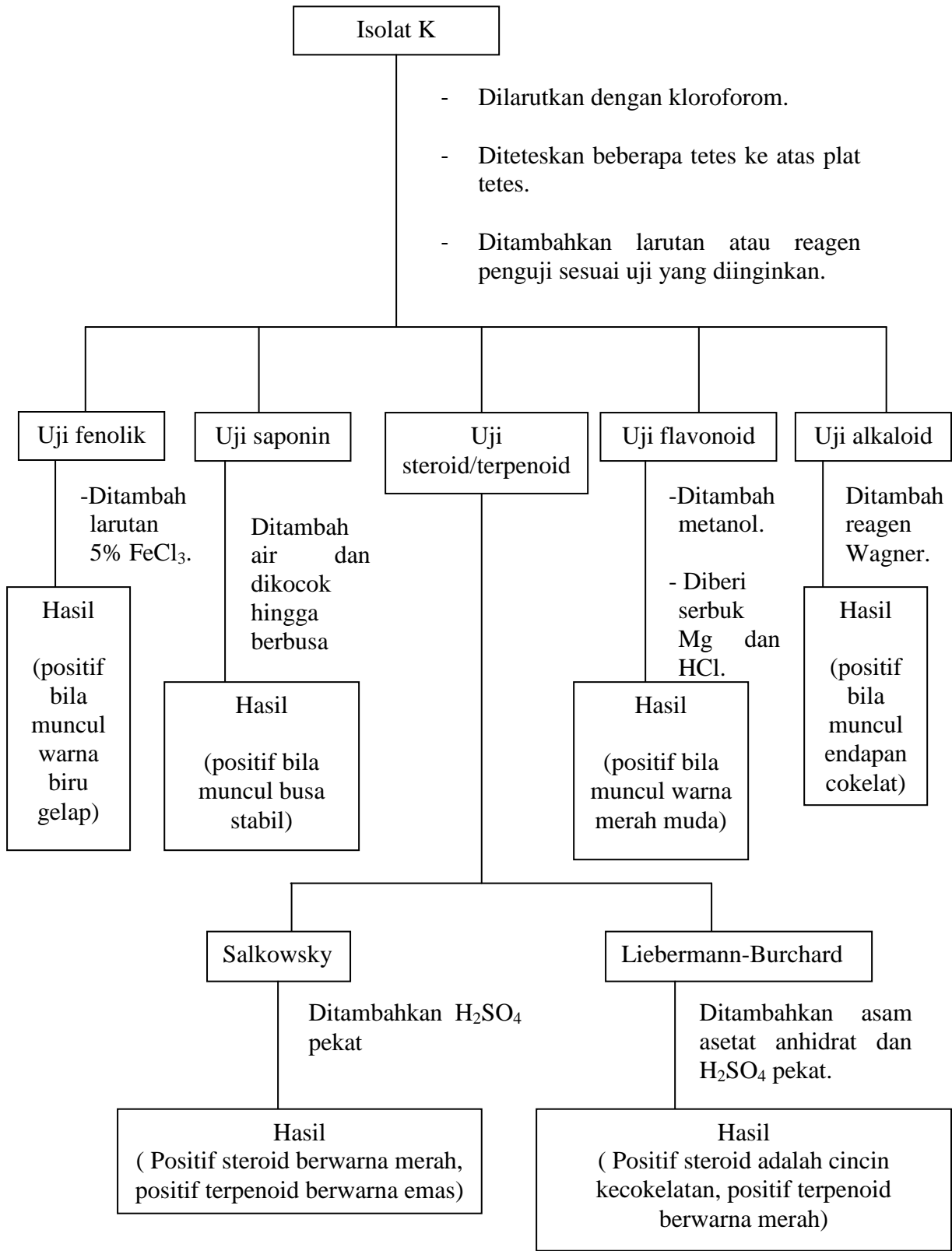
- Goud, T. V., Reddy, N. S., Swamy, N. R., Ram, T. S., dan Venkateswarlu, Y., 2003, Anti-HIV Active Petrosin from the Marine Sponge *Petrosia similis*, *Biol. Pharm. Bull.* **26**(10) : 1498—1501
- Haefner, B., 2003, Drugs From the Deep: Marine Natural Products As Drug Candidates, *DDT*(**8**) : 536.
- Ichiba, T., 1994, Constituents of Marine Invertebrates – Chemical and Pharmacological Properties, dissertation, University of Hawaii.
- Johannes, Eva, 2008, Isolasi, Karakterisasi dan Uji Bioaktivitas Metabolit Sekunder dari Hydroid *Aglaophenia cupressina* L. Sebagai Bahan Dasar Antimikroba, tesis, Universitas Hasanuddin, Makassar.
- Johnson, M. K., Alexander, K. E., Lindquist, N., dan Loo, G., 1999, Potent Antioxidant Activity of a Dithiocarbamate-Related Compound from a Marine Hydroid, *Biochem. Phar.* **58** : 1313 -1316.
- Lubbock, R., 1979, Chemical Recognition and Nematocyte Excitation In A Sea Anemone, *J. exp. Biol.* (**83**) : 283.
- Mannito, P., 1981, Biosynthesis of Natural Products, Ellis Harwood Ltd., Chichester, UK.
- Pankey, G. A., dan Sabbath, L. D., 2004, Clinical Relevance of Bacteriostatic Versus Bactericidal Mechanism of Action in the Treatment of Gram Positive Bacterial Infections, *Clin. Infec. Dis.* **38** : 864 – 870.
- Pawlik, J. R., 1993, Marine Invertebrate Chemical Defenses, *Chem. Rev.* 1993(**93**) : 1911-1922
- Raaman, N., 2006, Phytochemical Techniques, New India Publishing, New Delhi.
- Romimohtarto, K., dan Juwana, S., 2007, Biologi Laut: Ilmu Pengetahuan Tentang Biota Laut, Penerbit Djambatan, Jakarta.
- Rupert, E. E., dan Barnes, R. D., 1994, Invertebrate Zoology 6th ed., Saunders College Publishing, Orlando.
- Scheuer, Paul J., 1978, Marine Natural Products, Chemical and Biological Perspectives vol. II, Academic Press, New York.
- Schwartzmann, G., 2000, Marine Organisms and Other Novel Natural Sources of New Cancer Drugs, *Ann. Oncol.* **11** (3) : 235 – 243.
- Silverstein, R. M., Webster, F. X., dan Kiemle, D. J., 2005, Spectrometric Identification of Organic Compunds 7th ed., John Wiley & Sons, Inc., USA.

- Socrates, G., 2001, Infrared and Raman Characteristic Group Frequencies Tables and Charts 3rd ed., John Wiley & Sons, Ltd., England.
- Tabarez, M. G., 2005, Discovery of The New Antimicrobial Compound 7-O-malonyl Macrolactin A, Thesis, University of Technology Wilhemina
- Till, Marisa, 2007, Studies of New Zealand Marine Organisms, tesis, University of Waikato, Selandia Baru.
- Vilee, C. A., Walker, W. F., dan Barnes, R. D., 1978, General Zoology, W. B. Saunders Comp., Philadelphia.
- Wink, M., 2003, Evolution of Secondary Metabolites From an Ecological and Molecular Phylogenic Perspective, *Phytochemistry* **64** : 3 – 19.
- Zipcodezoo, 2009, *Aglaophenia cupressina*, (ONLINE), http://www.zipcodezoo.com/Animals/A/Aglaophenia_cupressina/, diakses tanggal 19 Juli 2010, 07.00 PM.

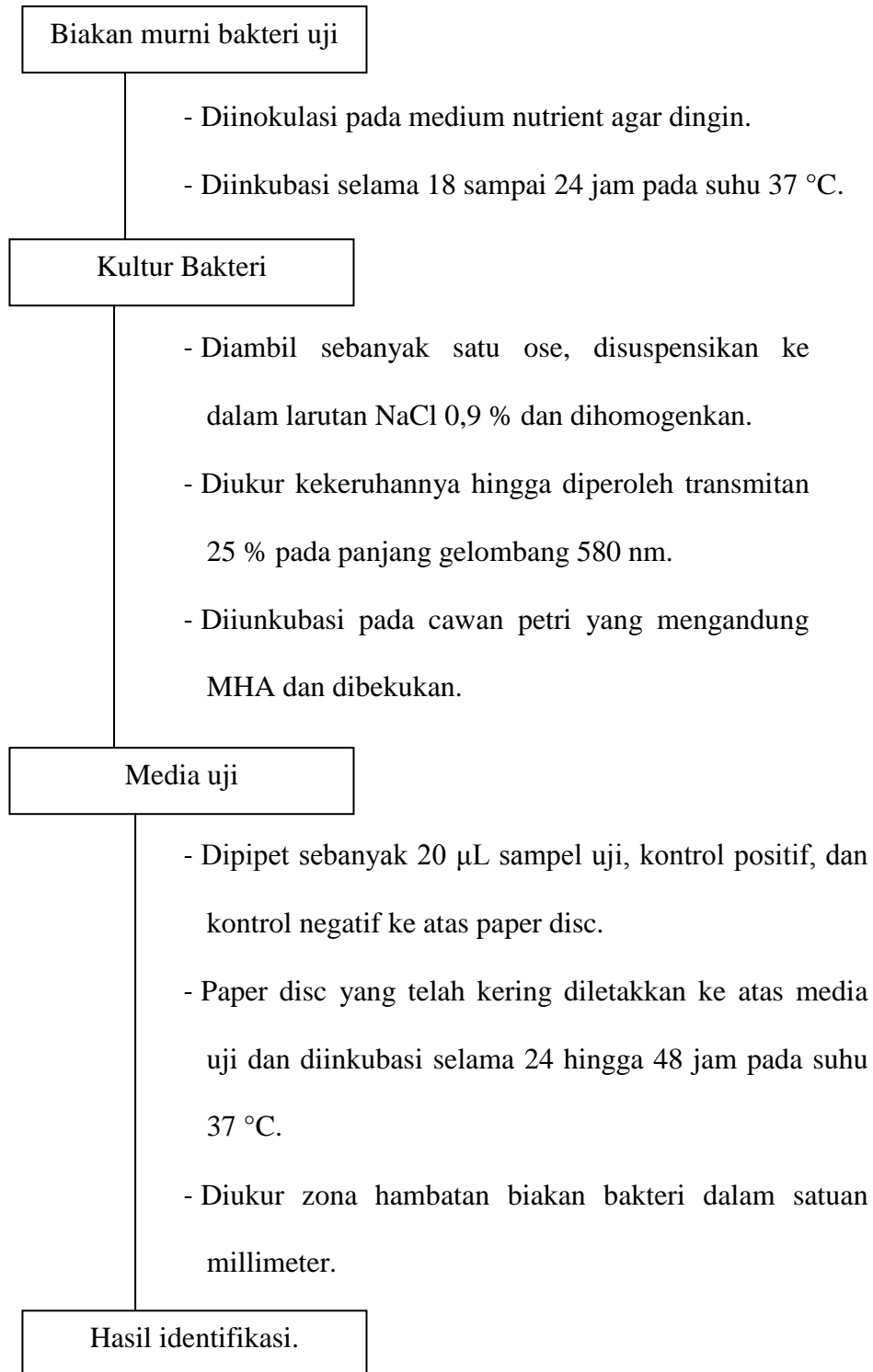
Lampiran 1. Bagan Ekstraksi dan Isolasi Senyawa Metabolit Fraksi Etil Asetat *Aglaophenia cupressina* L.



Lampiran 2. Bagan Kerja Uji Fitokimia

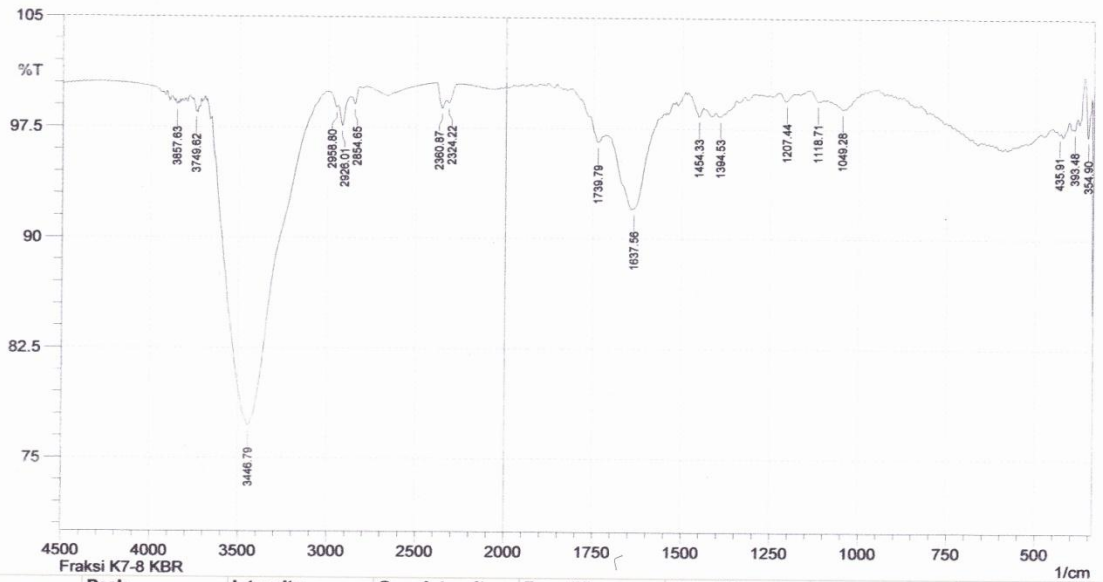


Lampiran 3. Bagan Kerja Uji Antibakteri



Lampiran 4. Laporan Puncak Spektrum IR Isolat K

SHIMADZU



Peak	Intensity	Corr. Intensity	Base (H)	Base (L)	Area	Corr. Area
1	354.9	96.993	3.373	366.48	0.107	0.147
2	393.48	97.534	0.309	397.34	0.112	0.008
3	435.91	97.198	0.152	445.56	0.16	0.005
4	1049.28	98.831	0.139	1070.49	0.117	0.007
5	1118.71	99.393	0.125	1141.86	0.03	0.005
6	1207.44	99.416	0.544	1230.58	0.058	0.05
7	1394.53	98.328	0.229	1408.04	0.186	0.015
8	1454.33	98.336	0.868	1485.19	0.179	0.076
9	1637.56	92.022	0.19	1639.49	1.526	0.041
10	1739.79	96.528	0.938	1762.94	0.462	0.082
11	2324.22	99.16	0.364	2333.87	0.068	0.041
12	2360.87	98.801	0.978	2393.66	0.133	0.119
13	2854.65	99.059	0.781	2875.86	0.09	0.065
14	2926.01	97.604	1.536	2949.16	0.41	0.17
15	2958.8	98.867	0.233	3012.81	0.138	-0.018
16	3446.79	77.205	21.544	3660.89	33.552	30.859
17	3749.62	98.535	0.201	3765.05	0.093	0.006
18	3857.63	99.011	0.122	3865.35	0.038	0.005

Comment:
Fraksi K7-8 KBR

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No. of Scans;
Resolution;
Apodization;

Lampiran 5. Data diameter zona hambat Isolat K dan dua antibiotik standar terhadap bakteri *E. coli* dan *S. aureus*

A. Diameter zona hambat pada inkubasi 0 jam

Senyawa	Diameter daya hambat (mm)	
	<i>E. coli</i>	<i>S. aureus</i>
Kloramfenikol	7	7
	7	7
	7	7
Tetrasiklin	7	7
	7	7
	7	7
Isolat K	7	7
	7	7
	7	7

B. Diameter zona hambat setelah inkubasi 24 jam

Senyawa	Diameter daya hambat (mm)	
	<i>E. coli</i>	<i>S. aureus</i>
Kloramfenikol	29,0	28,6
	29,0	28,6
	29,0	28,6
Rata-rata	29,0	28,6
Tetrasiklin	10,0	35,5
	10,0	35,5
	10,0	35,5
Rata-rata	10,0	35,5
Isolat K	13,2	8,6
	13,0	8,6
	13,0	8,7
Rata-rata	13	8,6

Keterangan: Diameter daya hambat pada 0 jam inkubasi adalah diameter dari kertas saring dan blank disk yang menjadi media isolat K dan antibiotik standar