

DAFTAR PUSTAKA

- Adolf, R. O., A. Menzel and V. D. Taran, (2002), Analysis of Conjugated Linoleic Acid Enriched Triacylglycerol Mixture by Isolatic Silver – Ion High Performance Liquid Chromatography, *J. Chrom, A* **953** : 293 – 297.
- Albers. R., R. P. J. Van der Wielen, E. J. Brink, H. F. J. Hendriks, V. N. D. Taran and I. C. M. Mohede, (2003), Effects of cis – 9 , trans – 11 And trans – 10. Cis – 12 Conjugated Linoleic Acid (CLA) Isomers on Immune Function in Healthy Men, *Eur. L. Clin. Nutr* **57**: 595 – 6003.
- Allonso. L., E. P. Guesta and S. E. Gillilang, (2003), Production of Free Conjugated Linoleic Acid Isomers by Lactobacillus acidophilus casei of Human Intestinal Origin, *J. Dairy Sci* **86**: 1941 – 1946.
- Bangsaganya, R.J, R. Hontecillas and D.C. Beitz, (2002), Colonie Anti-inflantory Mechanism of Conjugated Linoleic Acid, *Clin. Nutr.* **21**: 451 – 459.
- Bath, D.S., dkk., (2012), Penggunaan Tanah Bentonit Sebagai Adsorben Logam Cu, *Jurnal Teknik Kimia*, 1(1): 1.
- Bissonauth. P., Y. Chounard, J. Marin, N. Leblac and H. Jacques, (2008), *Altared Lipids Response in Hamster fed cis – 9 trans – 11 and trans – 8, cis – 10 Conjugated Linoleic Acid*, *Lipids* **43(3)**: 252 – 258.
- Blankson. H., Stakkestad J. A., Fagertun H., Thorn E., Wadstein J. and Gudmundsen O., (2003), Conjugated Linoleic Acid Reduced Body Fat Mass in Overweight and Obese Humans. *J. Ntr* **130**: 2943 – 2948.
- Brahmana. H. R., (1989), *Penentuan Komposisi Asam Lemak dari Bahan Alam Dengan Cara Kromatografi Gas Terhadap Metil Ester dari Minyak Nabati (Tidak dipublikasikan)*, Laporan Penelitian Lemlit USU, Medan.
- Cristie. W. W., (1998), *Gas Chromatography – Mass Spectrometry Methods for Structural Analysis of Fatty Acid*, *Lipids* **33**: 343 – 353.
- Cristie. W. W., G. Dopson and R. O. Adolf, (2007), A. Practical Guide to The Isolation Analysis and Identification of Conjugated Linoleic Acid, *Lipids* **42**: 1073 – 1025.
- Damyanova B. N., (2010), Silver Ion Chromatography and Lipids; http://www.lipidlibrary.aocs.org/silver/bnd_rev/index1.html (Diakses pada Februari 2016).

- Dobson. G., (1998), Identification of Conjugated Linoleic Acid by GC – MS of 4-methyl 1,2,3 – triazoline – 3,5 – Dione Adducts, *JAOCs* **75**: 137 – 142.
- Gandjar, I. G. dan Rohman, A., (2007), *Kimia Farmasi Analisis*, Pustaka Pelajar, Yogyakarta, 353-359.
- Ginting, K., Ginting, M., dan Sihotang, H., (2003), *Dehidrasi Risinoleat Yang Terdapat Dalam Minyak Jarak (Ricinus Communis L) Menggunakan Molekuler Sieve Secara Refluks Dalam beberapa Pelarut Organik*, Lembaga Penelitian USU, Medan.
- Fernie, C.E., (2003), Conjugated Linoleic Acid in Lipid Functional Food and Nutraceuticah, *The Oil Press*, India.
- Gritter, R. J. et al. (Penerjemah: Kosasih Padmawinata), (1991), *Pengantar kromatografi*, Edisi kedua, ITB, Bandung.
- Guil – Guerro. J. L., Campra Madrid and E. El – Hassan, (2000), γ - Linoliec Acid Purification from Seed Oil Sources by Argentated Silica gel Chromatography Colomn, *J. Chrome. A* **694**: 381 – 389.
- Hidetaka, U., T. Suganuma, S. Negishi, S. Ueno, dan K. Sato, (2006), A Novel Method for Solvent Fractination of Two CLA Isomers, *JAOCs* **83**: 261 - 268.
- Hostettmenn, K., dkk., (2006). *Cara Kromatografi Preparatif*, ITB, Bandung.
- Ilmu Kimia, (2013), Kromatografi Kolom, <http://www.ilmukimia.org/2013/05/kromatografi-kolom.html>. (Diakses pada February 2015).
- Jannah, R., (2008), *Reaksi Transesterifikasi Trigliserida Minya Jarak Pagar dengan Metanol Menggunakan Katalis Padatan Basa*, UI, Depok.
- Kanal, R.C dan Dhiman, T.R., (2004), Boysintesis of Conjugated Linoleic Acid (CLA): A Review, *Pakistan J. Ntr.* **3(2)**: 72 – b81.
- Liangli. Y., (2001), Free Radical Scavenging of Conjugated Linoleic Acid, *J. Agr. And Food Chem* **49**: 3452 – 3456.
- Liangli. Y., D. Adams and M. Gabel, (2002), Conjugated Linoleic Acid Differs in their Free Radical Scavenging of Conjugated Linoleic Acid, *J. Agr. And Food Chem* **50**: 4135 – 4140.

- Lin. T. Y., C. W. Lin and Y. J. Wang, (2003), Production of Conjugated Linoleic Acid by Enzyme Extract of Lactobacillus Acidophilus CCRC 14079, *Food Chem* **83**: 27 – 31.
- Malpuegch, B.C., dkk., (2004), Effects of Two Conjugated Linoleic Acid Isomers on Bodt Fat Mass in Overwight Humans, *Obesity Res* **72**: 591 – 598.
- Mawarni, R., (2006), *Asam Linoleat Terkonjugasi Penurun Timbunan Lemak (Tidak dipublikasikan)*, Laporan Penelitian Pusat Kajian Makanan dan Obat Tradisional. Lembaga Penelitian UNDIP, Semarang.
- Markham, R. K., (1988), *Cara Mengidentifikasi Flavonoid*, ITB, Bandung
- Mulhidin, (2011), Chemistry, <http://mutiara-mulhidin.blogspot.com/p/chemistry.html>. (Diakses pada Februari 2016)
- Muller. J. D, and J. E. Delahoy, (2009), CLA Implication foe Animal Production and Human Health, www.das.psu.edu/temdairy **04**: 1 - 8 (Diakses pada Februari 2016).
- Munson, J. W., (2010), *Analisis Farmasi*, Airlangga, University Press, Surabaya
- Nagao. K. N., N. Inou, Y. M. Wang and J. Shimada, (2003), The t10, c12 Isomers of CLA Suppresses the Development of Hypertention in Otsuka Long Evans Tokushima Fatty Rats, *Biochem. Biophys. Res. Comun*, **36**: 134 – 138.
- Nasution, A. R., (2010). *Isolasi Senyawa Triterpenoid atau Streoid*, Universitas Sumatra Utara, Medan.
- Neff, W. E., R. O. Adlof, dan M. El-Agaimy, (1999), Silver Ion High – Performance Chromatography of The Triacylglycerols of Crepis alpina Seed Oil, *JAOCs* **71**: 853 – 860.
- Novianti, N. D., (2012), *Isolasi Uji Aktivasi Antioksidan dan Toksisitas Menggunakan Artemia Salina dstrak Metanol dan Daun Leach Jambo-Jambo*, UIari Fraksi Aktig EK, Depok.
- O'Shea. A. M., R. Devery, F. Lawless, K. Koegh and T. Stanton, (2000), Enrichment of The Conjugated Linoleic Acid COnten in Bovine Milk by Dry Fractination, *Int. Dairy J.* **10**: 289 – 294.
- Ozgul. Y. S., (2005), Determination of Conjugated Linoleic Acid Conten of Selected Oil Seeds Grown in Turkey, *JAOCs* **82**: 893 – 898.

- Parodi. P. W., (1997), Conjugated Linoleic Acid of Milk Fat, *J. Dairy Sci.* **60**: 1550 – 1553.
- Paterson, L.J., (2000), The Effect of Dietary Manipulation on The Content and osisional Distribution of Fatty Acids Including Conjugated Linoleic Acid in The Tissues of Sheep, *A Thesis Master Departement of Chemistry and Biochemistry University of Lethbridge*, Alberta Canada.
- Pawlowsky. R. J., H. W. Sprecher and N. Salem, (1992), High Sensivity Negative GC – MS Method for Detection of Desaturated and Chain Elongated Product of Deuterated Linoleic and Linoleic Acid, *Lipid* **33**: 1711 – 1717.
- Petridou. M., A. Moigios and M. A. de La Fuente, (2005), Supplementation with CLA Isomer Incorporation into Serum Lipids and Effects on Body Fat Women, *Lipids* **38**: 805 – 811.
- Pilar. L., J. Fonthecca, M. Juarez and M. A. de la Fuente, (2005), Conjugated Linoleic Acid in Ewe Milk Fat, *J. Dairy Research* **72**: 415 – 424.
- Priest. W. G and J. D. Von Mikusch, (1997), *Coposition and Analysis of Dehydrated Castor Oil*, Woburn Degreasing Company of New Jersey New York.
- Ramdhini, R.N., (2010), *Uji Toksisitas Terhadap Artemia Salina Leach. Dan Toksisitas Akut Komponen Bioaktif Pandanus Conoideus Var. Conoideus Lam. Sebagai Kandidat Antikanker*, Universitas Sebelas Maret, Surakarta.
- Rincon. M. A. C., I. R. Garcia and J. L. Guil-Guerrero, (2009), Purification od GLA - Triglycerida from Evening Primrose Oil by Gravimetric Colomn Chromatography, *JAACS* **86**: 605 – 609.
- Roach. J. A. G., M. P. Yuruwecz, J. G. K. Kramer, M. M. Mossoba and Y. Ku, (2000), *Gas Chromatography – High Resolution Selection Mass Spectrometric Identification of Trace 21:0 and 20:2 Fatty Acid Eluting With Conjugated Linoleic Acid Isomers*, *Lipids* **35**: 797 – 802.
- Sastrohamidjojo, H., (1985), *Kromatografi*, Liberty, Yogyakarta.
- Sehat. N., J. K. G. Kramer, M. M. Mossoba, M.P. Yurawecz, J. A. G. Roach, K. Eulitz, K. M. Morehouse and Y. Ku, (1998), *Identification of Conjugated Linoleic Acid Isomers in Cheeseby Gas Chromatography, Silver Ion High Performance Liquid Chromatography and Mass Spectral Reconstructed*

Ion Profiles Comparison of Chromatographic Elution Sequences, Lipids
33: 963 – 971.

- Sitorus, M. dan Purba, J., (2006), *Dehidrasi Risinoleat Minyak jarak (Castor Oil) Dan Karakterisasinya Sebagai Usaha Pengolahan Minyak Jarak Untuk Konsumsi*, Laporan Penelitian Dosen Muda Lembaga Penelitian UNIMED, Medan. **3(2):** 139 – 144.
- Sitorus. M., S. Ibrahim, H. Nurdin dan D. Darwis, (2009), Transformation of Ricinoleic of Castor Oil into Linoleic Acid(omega – 6) and Conjugated Linoleic Acid by Dehydration, *Indo. J. Chem.* **9(2):** 278 – 284.
- Sitorus. M., S. Ibrahim, H. Nurdin dan D. Darwis, (2010), Studi Kinetika Dehidrasi Risinoleat Minyak Jarak, *Jurnal Riset Kimia* **3(2):** 139 – 144.
- Sitorus. M., S. Ibrahim, H. Nurdin dan D. Darwis, (2011), Isomerisasi Linoleat Minyak Jarak Hasil Dehidrasi Menjadi Asam Linoleat Terkonjugasi dan Pemisahannya dengan Kromatografi Kolom Fasa Diam Silikagel Terimpregnasi Perak Nitrat, *Jurnal Matematika dan Sains* 16 (1), Inpress.
- Sitorus, M., Hutabarat, W., Sutiani, A., (2016), *Transformasi Risinoleat Minyak Kastor Menjadi Berbagai Senyawa yang Lebih Bermanfaat*, Plantaxia, Yogyakarta.
- Susanto, M.D., (2016), *Pemurnian CLA (Conjugated Linoleic Acid) Hasil Sintesis Risinoleat Minyak Kastor dengan Kromatografi Kolom Fasa Diam Silika Gel yang diimpregnasi dengan Perak Nitrat dan Fasa Gerak Pencampuran Aseto, Heksan, dan Asetonitril*, UNIMED, Medan.
- Sutiani, D., (2006), Karakteristik Bentonit Asal Karangnunggal, Tasikmalaya Sebagai Bahan Baku Bleaching Earth, *Skripsi*, IPB, Bogor.
- Sykes, P., (1989), *Guideline of Mechanism of Reaction Organic Chemistry*, Jhon Willey and Sons New York.
- Townshend, A., (1995), *Encyclopedia of Analytical Science*, Vol. 2, Academic Press Lnc, London, 714-728.
- Velleneuve. P., R. Lago, N. Barouh and B. Barea, (2005), Production of Conjugated Linoleic Acid Isomers by Dehydration and Isomerization of Castor Bean Oil, *JAOCs* **82:** 261 – 270.

Wisnu. A. Y., (2003), *Asam Linoleat Terkonjugasi Nutrien Ajaib yang Sarat Manfaa, Departemen Teknologi Pangan*, Universitas Wangsa Manggala Yogyakarta.

Yazid, E., (2005), *Kimia Fisika untuk Paramedis*, Andi, Yogyakarta.

Yuruwecz. M. P and K. M. Morehouse, (2001), Silver-Ion HPLC of Conjugated Linoleic Acid Isomers, *Eur J Lipids Sei Technol* **103**: 609 – 613.