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Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Abbas, A.K., Lichtman, A.H., Pillai, S., 2010, *Cellular and Molecular Immunology 6th edition*, Saunders Elsevier.

Abbas, A.K., Lichtman, A.H., dan Pillai, S., 2016, *Basic Immunology Functions and Disorders of the Immune System*, edisi 5, 231 – 247, Elsevier, Missouri.

Abbe, N.J.V., Nicholas, P., Boon, E., 1974, Exaggerated Exposure in Topical Irritancy and Sensitization Testing, *Journal of the Society of Cosmetic Chemist*, **26**, 173 -187.

Abed, K.F., 2007, Antimicrobial Activity of Essential Oils of Some Medicinal Plants from Saudi Arabia, Saudi, *Journal Of Biological Sciences*., **14**, 53 – 60.

Abramson, S., 2015, Delayed Hypersensitivity Reactions, https://emedicine.medscape.com/article/136118-overview, 8 April 2018.

Ahmed, S.S., Wang, X.N., Fielding, M., Kerry, A., Dickinson, I., Munuswamy, R., Kimber, I., Dickinson, A.M., 2015, An in vitro human skin test for assessing sensitization potential, *Journal of Applied Toxicology*, **36,** 669 – 684.

Al – Abd, N.M., Nor, Z.M., Mansor, M., Azhar, F., Hasan, M.S., Kassim, M., 2015, Antioxidant, antibacterial activity, and phytochemical characterization of Melaleuca cajuputi extract, *BMC Complementary and Alternative Medicine*, **15**, 385.

Aminullah, 2010, Formulasi Minyak – Minyak Menguap Menjadi Sediaan Balsem Counterirritant, Prosiding Seminar Nasional, Fakultas Farmasi Universitas Hasanuddin Makassar.

Anonim, 2013a, *Assessment report on Melaleuca alternifolia (Maiden and Betch) Cheel, M. linariifolia Smith, M. dissitiflora F. Mueller and/or other species of Melaleuca, aetheroleum*, European Medicines Agency, London.

Anonim, 2013b, *Standard for Olive Oils and Olive Pomace Oil*, Food and Agriculture Organization of United Nations, Roma.

Anonim, 2015, Paling Indonesia : Minyak Telon, https://www.kompasiana.com/bubup/paling-indonesia-minyak-telon_5500c5daa333115372512054, 14 Januari 2018.

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
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ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Anonim, 2017a, *Riset Penggunaan Minyak Telon*, http://www.tribunnews.com/lifestyle/2017/08/04/riset-penggunaan-minyak-telon, 22 November 2017.

Anonim, 2017b, How Your Baby's Immune System Develops, https://www.pregnancybirthbaby.org.au/how-your-babys-immune-system-develops, 13 Januari 2018.

Anonim, 2017c, The Benefits of Using Natural Skin Care Products for Your Baby, https://www.sproutmarket.com.au/blog/parenthood/the-benefits-of-using-natural-skin-care-products-for-your-baby.html, 13 Januari 2018.

Anonim, 2018, GHS Classification Criteria for Skin Sensitization, http://www.chemsafetypro.com/Topics/GHS/GHS_classification_skin_sensitizer_LLNA_Guinea_pig_maximisation_test_Buehler.html, 19 April 2018.

Asin, M., 2008, *Procedures in Cosmetic Dermatology (In Spanish)*, Elsevier, Madrid.

Axe, 2018, Top 10 Eucalyptus Oil Uses and Benefits, https://draxe.com/eucalyptus-oil-uses-benefits/, 14 Januari 2018.

Bakhru, 1992, *Herbs That Heal Natural Remedies for Good Health*, Saurabh Printers, Delhi.

Ball, N., Cagen, S., Carillo, J., Certa, H., Eigler, D., Emter, R., Faulhammer, F., Garcia, C., Graham, C., Haux, C., Kolle, S.N., Kreilling, R., Natsch, A., and Mehling, A., 2011, Evaluating The Sensitization Potential Of Surfactants : Integrating Data From The Local Lymph Node Assay, Guinea Pig Maximization Test, and In Vitro Methods in A Weight Of Evidence Approach, *Regulatory Toxicology and Pharmacology,* **60**, 389 – 400.

Basketter, D.A., Scholes, E.W., Kimber, I., Botham, P.A., Hilton, J., Miller, K., Robbins, M.C., Harrison, P.T.C., and Waite, S.J., 1991, Interlaboratory Evaluation of the Local Lymph Node Assay with 25 Chemicals and Comparison with Guinea Pig Test Data, *Journal of Toxicology Methods,* **1**, 30 – 43.

Basketter, D.A., Scholes, E.W., Wahlkvist, H., and Montelius, J, 1995a, An evaluation of the suitability of benzocaine as a positive control skin sensitizer, *Journal of Contact Dermatitis,* **33**, 28–32.

Basketter, DA., EW. Scholes, M. Chamberlain, 1995b, An Alternative Strategy to the Use of Guinea Pigs for The Identification of Skin Sensitization Hazard, *Journal Food Chemical Toxicology*, **33** (12), 1051 – 1056.

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
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ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Basketter, D.A., Gerberick, G.F., Kimber I., 1997, Strategies for Identifying False Positive Responses in Predictive Skin Sensitization Tests, *Food and Chemical Toxicology,* **36**, 327 – 333.

Basketter, D., Steiling, W., Berthold, K., Butler, M., Garrigue, J.L., 2000, Skin Sensitization Testing – New Perspectives and Recommendations, *Journal of Food and Chemical Toxicology*, **39**, 293 – 301.

Basketter, D., Takao, A., Silvia, C., Bruno, H., Joanna, J., Joop de Knecht, Robert, L., Irene, M., Anette, M., Dirk, P., Emiel, R., Laura H., R., Winfried, S., Silvia, T., Andrew, W., 2015, Alternatives for Skin Sensitization : Hazard Identification and Potency Categorisation : Report from an EPAA/CEFIC LRI/Cosmetics Europe cross sector workshop, *Journal Regulatory Toxicology and Pharmcology,* **73**, 660 – 666.

Basketter, D., Ball, N., Cagen, S., Carlos, J., Certa, H., Eigler, D., Garcia, C., HaraldEsch, Graham, C., Haux, C., Kreiling, R., Mehling, A., 2009, Application of a weight of evidence approach to assessing discordant sensitization datasets: implications for REACH. Regul. Toxicol. Pharmacol. **55**, 90–96.

Batubara, I., Suparto, I.H., Rakhmatika, F.A., 2016, Sineol dalam Minyak Kayu Putih sebagai Pelangsing Aromaterapi, *Jurnal Jamu Indonesia*, **1** (3), 12 – 17.

Bernath, A., Nemeth, E., Kattaa, Hethelyi, E., 1996, Morphological and Chemical Evaluation of Fennel *(Foeniculum vulgare* Mill), Populations of Different Origin, https: //www/researchgate.net/publication/241714014, 6 September 2017.

Biedermann, T., Kneilling, M., Mailhammer, R., Maier, K., Sander, C.A., Kollias, G., Kunkel, S.L., Hultner, L., Rocken, M., 2000, Mast cells control neutrophil recruitment during T cell-mediated delayed-type hypersensitivity reactions through tumor necrosis factor and macrophage inflammatory protein, Journal of Experimental Medicine, **192**(10):1441–1452.

BPOM, 2014, Sasaran Strategis, http://www.pom.go.id/new/view/direct/strategic, 18 Februari 2018.

Branco, N., Lee, I., Zhai, H., Maibach, H.I., 2005, Long Term Repetitive Sodium Lauryl Sulfate Induced Irritation Of The Skin : An *In Vivo* Study, *Contact Dermatitis*, **53,** 278 – 284.

Brisaert, M., Plaizier-Vercammen, J.A., 2007, Investigation on the Photostability of Tretinoin in Creams, *International Journal of Pharmacy,* **334**, 56 -61.

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
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ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Brophy, J.J. and Doran, J.C., 1996, Essential Oils of Tropical *Asteromyrtus*, *Callistemon* and *Melaleuca* Species: *In* Search of Interesting Oils with Commercial Potential, ACIAR Monograph No. 40.

Buehler, E.V., 1965, Delayed Contact Hypersensitivity in the Guinea Pig, *Archives of Dermatology,* **91**, 171 – 177.

Buehler, E.V., 1996, Nonspecific Hypersensitivity : False Positive Responses with the Use of Freund's Complete Adjuvant, *Contact Dermatitis*, **34**, 111-114.

Callender, J.T., dan James, P.J., 2011, Insecticidal and Repellent Effects of Tea Tree *(Melaleuca alternifolia)* Oil Against Lucilia cuprina, *Journal Veterinary Parasitology*, **184**, 271 – 278.

Cantore, P.L., Lacobelli, N.S., Marco, A.D., Capasso, F., Senatore, F., 2004, Antibacterial Activity of Coriandrum sativum L. And Foeniculum vulgare Miller Var. Vulgare (Miller), Essential Oils. *Journal of Agricultural and Food Chemistry*, **52**, 7682 – 7866.

CDRH, 2016, Evaluation and testing within a risk management process, US Department of Health and Human Services Food and Drug Administration Center for Devices and Radiological Health.

Chadwick, D., 1998, Rewards of treating decubitus ulcers, International Journal of Pharmaceutical Compound, **4**, 282–283.

Chang, R.K., Andre, R., Robert, L., Lawrence, Y., 2013, Generic Development of Topical Dermatologic Products: Formulation Development, Process Development, and Testing of Topical Dermatologic Products, *The AAPS Journal*, **15** (1), 41–52.

Choi, E.M., Hwang, J.K., 2004, Anti Inflammatory, Analgesic and Antioxidant Activities of The Fruit of Foeniculum vulgare, *Journal of Fitoterapia,* **75**, 557 – 565.

Crabb, E.D., 1958, Effect of mast cell products on capillary permeability, *Ecology and Evolutionary Biology,* **12**, 1-35.

Cumberbatch, M., Kimber, I., 1995, Tumour necrosis factor-alpha is required for accumulation of dendritic cells in draining lymph nodes and for optimal contact sensitization, *Immunology*, **84**(1), 31–35.

Cumberbatch, M., Dearman, R.J., Kimber, I., 1997, Interleukin 1 beta and the stimulation of Langerhans cell migration: comparisons with tumour necrosis factor alpha, Archives of Dermatological Research, **289**(5), 277–284.

UNIVERSITAS
GADJAH MADA
EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN MINYAK ZAITUN DENGAN METODE GUINEA PIG MAXIMISATION TEST
ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Del Arco, J., 1994, Pharmaceutical Compounding of Medicines (in Spanish), Colegio Official de Farmaceuticos de Vizcaya, Spain, halaman 50.

Diazz – Maroto, M.C., Hidalgo, I.J.D., Saa nchez-Palomo, E., Pearez Coello, M.S., 2005, Volatile Components and Key Odorants of Fennel (Foeniculum vulgare Mill.) and Thyme (Thymus vulgaris L.) Oil Extracts Obtained by Simultaneous Distillation – extraction and Supercritical Fluid Extraction, *Journal of Agricultural and Food Chemistry*, **53**, 5385 – 5389.

Diazz Maroto, M.C., Pea rez- Coello, M.S., Esteban, J., Sanz, J., 2006, Comparison of The Volatile Composition of Wild Fennel Samples (Foeniculum vulgare Mill.) from Central Spain, *Journal of Agricultural and Food Chemistry*, **54**, 6814 – 6818.

Dilulio, N.A., Xu, H., Fairchild, R.L., 1996, Diversion of CD4+T Cell Development from Regulatory T Helper to Effector T Helper Cells Alters The Contact Hypersensitivity Response, *European Journal of Immunology*, **26**, 2606.

Drake, D.R., Brodgen, K.A., Dawson, D.V., Wertz, P.W., 2008, Thematic Review Series : Skin Lipids, Antimicrobial Lipids at The Skin Surface, *The Journal of Lipid Research*, **49**, 4 – 11.

Dudeck, A., Dudeck, J., Scholten, J., Petzold, A., Surianarayanan, S., Kohler, A., Peschke, K., Vohringer, D., Waskow, C., Krieg, T., Muller, W., Waisman, A., Hartmann, K., Gunzer, M., Roers, A., 2011, Mast cells are key promoters of contact allergy that mediate the adjuvant effects of haptens, Immunity, **34** (6), 973–984.

ECVAM (European Centre for the Validation of Alternative Methods), 2008, Murine Local Lymph Node Assay (LLNA) Performance Standards, European Commission, Institute for Health and Consumer Protection, Ispra, Italia.

Efruan, G.K., Martosupono, M., Rondonuwu, F.S., 2016, Review : Bioaktivitas Senyawa 1,8 Sineol pada Minyak Atsiri, Seminar Nasional Pendidikan dan Saintek, Universitas Kristen Satya Wacana Salatiga.

Einslein, K., Gombar, V.K., Blake, B.W., Maibach, H.I., Hostynek, J.J., Sigman, C.C., Bagheri, D., 1997, A Quantitative Structure Toxicity Relationships Model for The Dermal Sensitization Guinea Pig Maximization Assay, *Food and Chemical Toxicology,* **35**, 1091 – 1098.

Ereatux, L.P., 1940, The Cosmetic Eye – a Periocular Dermatitis, *Canadian Medical Association Journal*, **42**, 364 – 367.

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
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ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Fairley, J.A., Rasmussen, J.E., 1983, Comparison of Stratum Corneum Thickness in Children and Adults, Journal of The American Academy of Dermatology, **8**, 652 – 654.

Fariweather, D., Frisancho-Kiss, S., Rose, N.R., 2015, Viruses as Adjuvants for Autoimmunity Evidence from Coxsackievirus Induced Myocarditis, *Reviews in Medical Virology,* **15** (1), 17 -27.

FDA, 2014, Letter Responding to Health Claim Petition dated August 28, 2003 : Monounsaturated Fatty Acids from Olive Oil and Coronary Heart Disease (Docket No 2003Q-0559), https://www.fda.gov/food/ingredientspackaginglabeling/labelingnutrition/ucm072963.htm, 8 September 2017.

Fehri, B., Aiache, J.M., Memmi, A., Korbi, S., Yacoubi, M.T., Mrad, S., Lamaison, J.L., 1994, Hypotension, Hypoglycemia and Hypouricemia Recorded After Repeated Administration of Aqueous Leaf Extract of *Olea europaea* L., *Journal de Pharmacie de Belgique*, **49**, 101 – 108.

Fluhr, J.W., Darlenski, R., Lachmann, N., 2012, Infant Epidermal Skin Physiology, Adaptation After Birth, *British Journal Of Dermatology*, **166**, 296 – 302.

Fox, S.J., dan Park, M.A., 2014, Penicillin Skin Testing is A Safe and Effective Tool for Evaluating Penicillin Allergy in The Pediatric Population, *Journal of Allergy and Clinical Immunology,* 2, 439 – 444.

Freeman, S., Rubel, D., dan Southwell, I.A., 1997, Skin Irritancy of Tea Tree Oil, *Journal of Essential Oil Research, **97,*** 47 – 52.

Freund, J., 1956, The Mode of Action of Immunologic Adjuvants, *Advance Tuberculosis Resistance*, **7**, 130.

Friedman Z, 1980, Essential Fatty Acids Revisited, *American Journal of Disease of Children*, **134**, 397 – 408.

Fukuda, S., Midoro, K., Kamei, T., Gyoten, M., Kawano, Y., Ashida, Y., dan Nagaya, H., 2002, Inhibition of Allergic Dermal Inflammation by the Novel Imidazopyridazine Derivative TAK-427 in a Guinea Pig Experimental Model of Eczema, *The Journal of Pharmacology and Experimental Therapeutics,* **303** (3), 1283 – 1290.

Gallo, R.L., Nakatsuji, T., 2011, Microbial Symbiosis with The Innate Immune Defense System of The Skin, *Journal of Investigative Dermatology*, **131**, 1974 – 1980.

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
MINYAK ZAITUN DENGAN METODE GUINEA PIG MAXIMISATION TEST**
ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Gaunt, I. F., dan Harper, K. H., 1964, The potential irritancy to the rabbit eye of certain com- mercially available shampoos, *Journal of the Society of Cosmetic*, **15**, 209.

Glaister., 1986, Principles of Toxicological Pathology, Taylor & Francis, London.

Grabbe, S., Steinert, M., Mahnke, K., Schwartz, A., Luger, T.A., Schwarz, T., 1996, Dissection of antigenic and irritative effects of epicutaneously applied haptens in mice, Evidence that not the antigenic component but nonspecific proinflammatory effects of haptens determine the concentration-dependent elicitation of allergic contact dermatitis, *Journal of Clinical Investment*, **98** (5), 1158–1164.

Grabbe, S., dan Schwarz, T., 1998, Immunoregulatory mechanisms involved in elicitation of allergic contact hypersensitivity, *Immunology Today*, **19** (1), 37–44.

Greenberg, L.A., Lester, D., Haggard, H.W., 1954, *Handbook of Cosmetic Materials*, Interscience Publishers, New York.

Greive, K.A., Staton, J.A., Miller, P.F., Peters, B.A., Oppenheim, V.M.J., 2010, Development of Melaleuca Oils as Effective Natural Based Personal Insect Repellents, *Australian Journal of Entomology,* **49**, 40 - 48.

Grolnick, M., 1960, *In Fundamentals of Modern Allergy*, 319, McGraw-Hill, New York.

Guimaraes, L.E., Baker, B., Perricone, C., Shoenfeld, Y., 2015, Vaccines, adjuvants and autoimmunity, *Pharmacological Research*, **100**, 190 – 209.

He, D., Wu, L., Kim, H.K., Li, H., Elmets, C.A., Xu, H., 2006, $CD8^+$ IL-17-producing T cells are important in effector functions for the elicitation of contact hypersensitivity responses, *The Journal of Immunology*, **177** (10), 6852–6858.

He, D., Wu, L., Kim, H.K., Li, H., Elmets, C.A., Xu, H., 2009, IL-17 and IFN-gamma mediate the elicitation of contact hypersensitivity responses by different mechanisms and both are required for optimal responses. *The Journal of Immunology*, **183** (2), 1463–1470.

Henriettes, 2013, *Practical Herbs 2*, Yrtit Ja Yrttiterapia Henriette Kress, Jerman.

Hodgson, E., 2010, *A Textbook of Modern Toxicology*, 4th edition, John Wiley & Sons, Canada.

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
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ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Honda, T., Miyachi, Y., Kabashima, K., 2011a, Regulatory T cells in cutaneous immune responses, *Journal of Dermatological Science*, **63** (2), 75–82.

Honda,T., Otsuka, A., Tanizaki, H., Minegaki, Y., Nagao, K., Waldmann, H., Tomura, M., Hori, S., Miyachi, Y., Kabashima, K., 2011b, Enhanced murine contact hypersensitivity by depletion of endogenous regulatory T cells in the sensitization phase, *Journal of Dermatological Science*, **61** (2), 144–147.

Ikarashi, Y., Momma, J., Tsuchiya, T., Nakamura, A., 1996, Evaluation of Skin Sensitization Potential of Nickel, Chromium, Titanium, dan Zirconium Salts Using Guinea Pigs anda Mice, *Biomaterials,* **17**, 2103-2108.

Isni, Assyatul., 2000, Formulasi Sediaan Minyak Kayu Putih dalam Beberapa Basis Salep, Skripsi, Fakultas Farmasi Universitas Airlangga, Surabaya.

James, W.D., Berger, T.G., dan Elston, D.M., 2006, *Andrews' diseases of the skin: Clinical dermatology*, 10th ed, Elsevier, Philadelphia.

Jensen-Jarolim, E., Leitner, A., Hirschwehr, R., Kraet, D., Wuthrich, B., Scheiner, O., Graf, J., Ebner, C., 1997, Characterization of Allergens in Apiaceae Spices : Anise, Fennel, Coriander and Cumin, *Clinical and Experimental Allergy,* **27** (11), 1299 – 1306.

Juliano, C., Cossu, M., Alamanni, M.C., Piu, L., 2005, Antioxidant Activity of Gamma – Oryzanol : Mechanism of Action and Its Effect on Oxidative Stability of Pharmaceutical Oils, *International Journal Of Pharmaceutics*, **299**, 146 – 154.

Junqueira, 2007, *Basic Histology*, Mc Graw Hill Lange, New York.

Junqueira, L.C., dan Carneiro, J., 2007, *Histologi Dasar*, Penerbit Buku Kedokteran EGC Jakarta.

Kabashima, K., Sakata, D., Nagamachi, M., Miyachi, Y., Inaba, K., Narumiya, S., 2003, Prostaglandin E2-EP4 signaling initiates skin immune responses by promoting migration and maturation of Langerhans cells, *Natural Medicine*, **9** (6), 744–749.

Kabashima, K., 2015, *Immunology of The Skin Basic and Clinical Sciences in Skin Immune Responses*, Springer, Jepang.

Kanitakis, J., 2002, Anatomy, histology and immunohistochemistry of normal human skin, *European Journal of Dermatology*, **12** (4), 390–401.

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
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ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Kaur, G.J., Arora, D.S., 2008, In Vitro Antibacterial Activity of Three Plants Belonging to the Family Umbeliferae, Int. *Joural of Antimicrobial Agents*, **31**, 393 – 395.

Kimber, I., Hilton, J., and Botham, P.A., 1990, Identification of Contact Allergens Using The Murine Local Node Assay : Comparison with The Buehler Occluded Patch Test in Guinea Pigs. *Journal of Applied Toxicology,* **10**, 173-180.

Kimber, D. A. Basketter , K. Berthold , M. Butler , J.-L. Garrigue L. Lea , C. Newsome , R. Roggeband, W. Steiling , G. Stropp , S. Waterman , C. Wiemann., 2001, Skin Sensitization Testing in Potency and Risk Assessment, *Toxicological Sciences*, 198-208.

Klaassen, C.D., 2013, *Casarett and Doull's Toxicology The Basic Science of Poisons*, Mc Graw Hill Education, New York, USA.

Kligman, A.M., Basketter, D.A., 1995, A Critical Commentary and Updating of The Guinea Pig Maximization Test, *Contact Dermatitis,* **32**, 129 – 134.

Kligman, A. M., 1966, The identification of contact allergens by human assay : III The maximization test A procedure for screening and rating contact sensitizers, *Journal of Investigative Dermatology*,**47**, 393.

Kligman, A.M., 1972, Reports to RIFM, 14 March and 13 October.

Kligman, A.M., dan Epstein,W., 1975, Updating the Maximization Test for Identifying Contact Allergens, *Contact Dermatitis,* **1**, 231.

Ko, G.M., Rosenkranz, A., Bertoncini, C.R.A., Jurkiewicz, N.H., Franco, M.G.,Jurkiewicz, A., 2010, Methods of acute biological assays in guinea-pigs for the study of toxicity and innocuity of drugs and chemicals, *Brazilian Journal of Pharmaceutical Sciences,* **46** (2), 251 - 263.

Kozic, D., Kolovrat, S.K., Laskaj, R., Jukic, V., Vrkic, N., dan Begovac, J., 2015, Effect of Extra Virgin Olive Oil on Biomarkers of Inflammation in HIV-Infected Patients: A Randomized, Crossover, Controlled Clinical Trial, *Medical Science Monitor,* **21**, 2406 –2413.

Kwon, Y.S., Choi, W.G., Kim, W.J., Kim, W.K., Kim, M.J., Kang, W.H., Kim, C.M., 2002, Antimicrobial Constituents of Foeniculum vulgare, *Archives of Pharmacal Research*, **25**, 154 – 157.

Lamoreux, M., Sternbach, M., Hsu, T.W., 2003, Erythema Multiforme, *Journal Dermatologic Clinics,* **21**, 196.

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
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ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Landsteiner, K., dan Chase, M.W., 1937, Studies on The Sensitization of Animals with Simple Chemical Compounds : IV. Anaphilaxis Induced by Picryl Chloride and 2:4 Dinitrochlorobenzene, *The Journal of Experimental Medicine*, **66**, 337.

Landsteiner, K., dan Chase, M.W., 1940, Studies on The Sensitization of Animals with Simple Chemical Compounds : VII Skin Sensitization by Intraperitonial Injections, *Ibid*, 71, 237.

Landsteiner, K., dan Chase, M.W., 1941, Studies on The Sensitization of Animals with Simple Chemical Compounds : IX. Skin Sensitization Induced by Injection of Conjugates, Journal of Experimental Medicine, **73** (3), 431 – 438.

Lee, E.J., dan Rothwell, J.T., 2010, Histological Changes to The Skin Of Merino Sheep Following Deep Dermal and Subcutaneous Injections Of Sodium Lauryl Sulfat, *Australian Veterinary Journal,* **88** (4), 146 – 150.

Lepoittevin, J.P., Karlberg, A.T., 1994, Interactions of allergenic hydroperoxides with proteins: a radical mechanism, *Chemical Research in Toxicology*, **7** (2), 130–133.

Lio, Peter., 2018, How Does Infant Skin Differ from Adult Skin?, https://www.medscape.org/viewarticle/743529, 14 Januari 2018.

Loyd, A., 2003, Natural Emollient Oil, *International Journal of Pharmaceutical Compounding*, **7**, 462.

Lutony, T.L., dan Rahmayati, Y, 1994, *Produksi Dan Perdagangan Minyak Atsiri*, Penerbit Penebar Swadaya, Jakarta.

Magnusson, B., dan Kligman A.M., 1969, The Identification of Contact Allergen by Animal Assay The Guinea Pig Maximisation Test, *Journal of Investigative Dermatology,* **52**, 268 – 276.

Magnusson, B. dan Kligman, A.M., 1970, *Allergic Contact Dermatitis in the Guinea Pig*, Springfield, Illinois.

Magnusson, B., 1980, Identification of Contact Sensitizers by Animal Assay, *American Contact Dermatitis Society*, **6**, 46.

Mahady, G.B., Pendland, S.L., Stoia, A., Hamill, F.A., Fabricant, D., Dietz, B.M., Chadwick, L.R., 2005, In Vitro Susceptibility of Helicobacter Pylori to botanical Extracts Used Traditionally for The Treatment of Gastrointestinal Disorders, *Phytotherapy Research*, **19**, 988 – 999.

UNIVERSITAS
GADJAH MADA
EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN MINYAK ZAITUN DENGAN METODE GUINEA PIG MAXIMISATION TEST
ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Manzoor, A.R., Bilal, A.Dar., Shahnawaz, N.S., Bial, A.B., Mushtaq, A.Q., 2012, Foeniculum vulgare : A Comprehensive Review of Its Traditional Use, Phtochemistry, Pharmacology, and Safety, *Arabian Journal of Chemistry,* **9**, 1574 – 1583.

Martin, S.F., Dudda, J.C., Bachtanian, E., Lembo, A., Liller, S., Durr, C., Heimesaat, M.M., Bereswill, S., Fejer, G., Vassileva, R., Jakob, T., Freudenberg, N., Termeer, C.C., Johner, C., Galanos, C., Freudenberg, M.A., 2008, Toll-like receptor and IL-12 signaling control susceptibility to contact hypersensitivity, *Journal of Experimental Medicine,* **205** (9), 2151–2162.

Martin, S.F., Esser, P.R., Weber, F.C., Jakob, T., Freudenberg, M.A., Schmidt, M., Goebeler, M., 2011, Mechanisms of chemical-induced innate immunity in allergic contact dermatitis, *Allergy*, **66** (9), 1152–1163.

Martin, A., Rodrigues, L.B., Cesario, F., dkk., 2017, Anti-edematogenic and anti-inflammatory activity of the essential oil from Croton rhamnifolioides leaves and its major constituent 1,8-cineole (eucalyptol), *Journal Biomedicine and Pharmacotherapy*, **96**, 384 – 395.

Marzulli, F.N. dan Maibach, H.I., 1973, Antimicrobials : Experimental Contact Sensitization in Man, *Journal of The Society of Cosmetic Chemists,* **24,** 399.

Materia Medika Indonesia, 1978, *Foeniculum vulgare* Mill, Jilid II, 36 – 41, Departemen Kesehatan Republik Indonesia, Jakarta.

Maurer, T.H., Weirich, E.G., Hess, R., 1980, The Optimization Test in The Guinea Pig in Relation to Other Predictive Sensitization Methods, *Journal Toxicology,* **15**, 163 – 171.

Maurrer, T.H., dan Hess, R., 1989, The Maximisation Test for Skin Sensitization Potential Updating The Standard Protocol and Validation of A Modified Protocol, *Journal of Food Chemistry,* **27**, 807 – 811.

Maurrer, T.H., Arthur, A., & Bentley, P., 1994, Guinea Pig Contact Sensitization Assays, *Journal Toxicology,* **93**, 47 – 54.

Maurer, T., 2006, Guinea Pigs in Hypersensitivity Testing, *Methods,* **41**, 48 – 53.

Meles, D.K., 2010, Peran Uji Praklinik dalam Bidang Farmakologi, Pidato Pengukuhan Jabatan Guru Besar dalam Bidang Farmakologi dan Tosikologi Fakultas Kedokteran Hewan Universitas Airlangga di Surabaya, 18 Desember 2010.

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
MINYAK ZAITUN DENGAN METODE GUINEA PIG MAXIMISATION TEST**
ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Menne, T., Veien, N., Sjolin, K.E., Maibach. H.I., 1994, HI : Systemic contact dermatitis, *American Journal Contact Dermatitis*, **5**, 1 – 12.

Middleton, E., Ellis, E.F., Yunginger, J.W., Reed, C.E., Adkinson, N.F., Busse, W.W., 1998, *In Allegy and Principles, Vols I dan II, 5th edition*, Mosby-Year Book Inc.

Miller, R.M., 2016, 20 Of The Best Essential Oils for Colds and Relieving The Flu, https://www.up-nature.com/blogs/news/20-of-the-best-essential-oils-for-colds-and-relieving-the-flu, 19 Februari 2018.

Mohsenzadeh, M., 2007, Evaluation of Antibacterial Activity of Selected Iranian Essential Oils Against Staphylococcus aureus and Escherichia coli in Nutrient Broth Medium, Pak. *Journal of Biology Science*, **10**, 3693 – 3697.

Momma, J., Kitajima, S., Inoue, T., 1997, The Guinea Pig Skin Sensitization Test Revisited : An Evaluation Formula to Predict Possible Sensitization Levels for Eight Chemicals Used in Household Products, *Toxicology,* **126,** 75 – 82.

Mori, T., Kabashima, K., Yoshiki, R., Sugita, K., Shiraishi, N., Onoue, A., Kuroda, E., Kobayashi, M., Yamashita, U., Tokura, Y., 2008, Cutaneous hypersensitivities to hapten are controlled by IFNgamma-upregulated keratinocyte Th1 chemokines and IFN-gamma-downregulated langerhans cell Th2 chemokines, *The Journal of investigative dermatology*, **128** (7), 1719–1727.

Motoki, Y., Fujita, S., Fujihara, Y., Okada, Y., Nomura, M., 2003, Skin Whitening Effects of Estragole Derivatives, *Journal of Oleo Sciences,* **52**(9), 495 – 498.

Munoz, M., Lopez-Viota, M., Ruiz, M.A., 2004, New Formulations of Olive Oil and Vitamin E (In Spanish), *Revista Fitoterapia*, **4**, 173 – 174.

Murdopo, 2014, Menyibak Potensi Pasar Obat Herbal Tradisional, *Warta Ekspor*, **5**, 3 – 9.

Nakae, S., Komiyama, Y., Nambu, A., Sudo, K., Iwase, M., Homma, I., Sekikawa, K., Asano, M., Iwakura, Y., 2002, Antigen-specific T cell sensitization is impaired in IL-17-deficient mice, causing suppression of allergic cellular and humoral responses, *Immunity*, **17** (3), 375–387.

Nakae, S., Komiyama, Y., Narumi, S., Sudo, K., Horai, R., Tagawa, Y., Sekikawa, K., Matsushima, K., Asano, M., Iwakura, Y., 2003, IL-1-induced tumor necrosis factor-alpha elicits inflammatory cell infiltration in the skin by inducing IFN-gamma-inducible protein 10 in the elicitation phase of the contact hypersensitivity response, *International Immunology,* **15** (2), 251–260.

UNIVERSITAS
GADJAH MADA
EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN MINYAK ZAITUN DENGAN METODE GUINEA PIG MAXIMISATION TEST
ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Nigam, P.K., 2008, Adverse Reactions to Cosmetics and Methods of Testing, *Indian J Dermatol Venereol Leprol*, **75** (1), 10 – 17.

Nikolovski, J., Stamatas, G.N., Kollias, N., 2008, Barrier Function and Water Holding and Transport Properties of Infant Stratum Corneum Are Different From Adult and Continue to Develop Through The First Year of Life, **128**, 1728 – 1736.

OACU, 2016, Guidelines for the Use of Adjuvants in Research Special Emphasis on Freund's Adjuvant, https://oacu.oir.nih.gov/sites/default/files/uploads/arac-guidelines/adjuvants.pdf, 7 April 2018.

OECD, 1992, OECD Guidelines for Testing of Chemicals, https://ntp.niehs.nih.gov/iccvam/suppdocs/feddocs/oecd/oecdtg406.pdf, 7 April 2018.

O'Hagan, D.T. dan Valiante, N.M., 2003, Recent Advances in The Discovery and Delivery of Vaccine Adjuvants, *Nature Review*, **2** (9), 727 – 735.

Opdyke, D.L.J., 1979, Monographs on Fragrance Raw Materials, Pergamon Press, New York.

Oranges, T., Dini, V., dan Romanelli, M., 2015, Skin Physiology of the Neonate and Infant: Clinical Implications, *Advances in Wound Care*, **4** (10), 587 – 595.

Otsuka, A., Kubo, M., Honda, T., Egawa, G., Nakajima, S., Tanizaki, H., Kim, B., Matsuoka, S., Watanabe, T., Nakae, S., Miyachi, Y., Kabashima, K., 2011, Requirement of interaction between mast cells and skin dendritic cells to establish contact hypersensitivity, *PLoS One*, **6** (9), 25538.

Owen, J.A., Punt, J., Stranford, S.A., Jones, P., 2013, *Kuby Immunology 7th edition*, W.H. Freeman and Company, New York.

Padoan, S.M., Petterson, A., Svensson A., 1990, Olive Oil as A Cause of Contact Allergy in Patients with Venous Eczema, and Occupationally,*Contact Dermatitis*, **23**, 73 – 76.

Pasare, C. dan Medzhitov, R., 2003, Toll Pathway Dependent Blockade of CD4+ CD25+ T Cell Mediated Suppression by Dendritic Cells, *Science*, **299**, 1033 – 1036.

Petersen, D., 2014, The Essential Oils of Indonesia, American College of Healthcare Sciences, 5940 SW Hood Avenue, Portland, OR 97239 USA.

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
MINYAK ZAITUN DENGAN METODE GUINEA PIG MAXIMISATION TEST**
ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Potts, S.J., Eberhard, D.A., Wharton, K.A., 2015, *Molecular Histopathology and Tissue Biomarkers in Drug and Diagnostic Development*, Humana Press, New York.

Rangachari, M., dan Kuchroo, V.K., 2013, Using EAE to better Understand Principles of Immune Function and Autoimmune Pathology, *Journal of Autoimmun*, **45**, 31 -39.

Rather, Manzoor, A., Bilal, A., Dar, S.N., Sofi, Bilal, A., Bhat, M.A., Qurishi, 2012, Foeniculum Vulgare : A Comprehensive Review Of Its Traditional Use, Phytochemistry, Pharmacology, and Safety, *Arabian Journal Of Chemistry,* **9** (2), 1574 – 1583.

Ritprajak, P., Hashiguchi, M., Azuma, M., 2008, Topical application of cream-emulsified CD86 siRNA ameliorates allergic skin disease by targeting cutaneous dendritic cells, *Molecular Therapy,* **16** (7), 1323–1330.

Robbins, 2013, *Basic Pathology 9th ed*, 31-72, Elsevier Saunder, Philadelphia.

Ruberto, G., Baratta, M.T., Deans, S.G., Doman H.J.D., 2000, Antioxidant and Antimicrobial Activity of *Foeniculum vulgare* and *Crithmum maritimum* Essential Oils, *Plant Medicines,* **66**, 687 – 693.

Ruiz, M.A., Pleguezuelos, M., Munoz, M., Gallardo, V., 2004, Moisturizing Capacity of Aloe Vera Gel in Skin Creams Made with Silicone Based and Olive Oil Based Latex Preparations, *Journal of Applied Cosmetology,* **22**, 25 – 33.

Ruiz, M.A., Arias, J.L., Gallardo, V., 2010, *Skin Creams Made with Olive Oil*, Elsevier, 1133 – 1141.

Sampurno, 2003, Kebijakan Pengembangan Obat Bahan Alam Indonesia, Seminar Nasional Tanaman Obat Indonesia XXIII, Universitas Pancasila, Jakarta.

Sampurno, 2017, Sambutan pada Pembukaan The Third Meeting of Medicinal Plants Focal Points of Indian Ocean Rim Association Regional Center for Science and Technology Transfer (IORA RCSTT) di Jakarta, 10 – 12 Mei 2017.

SCCP, 2008, Opinion On Tea Tree Oil, Health and Consumer Protection DG Public Health and Risk Assessment, Eropa.

SCCNFP, 2000, Notes of Guidance for Testing of Cosmetic Ingredients for Their Safety Evaluation, http://ec.europa.eu/health/ph_risk/committees/sccp/documents/out130_en.pdf, 07 Mei 2018.

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
MINYAK ZAITUN DENGAN METODE GUINEA PIG MAXIMISATION TEST**
ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Schittek, B., Hipfel, R., Sauer, B., Bauer, J., Kalbacher, H., Stevanovic, S., 2001, Dermicidin : A Novel Human Antibiotic Peptide Secreted By Sweet Glands, *Nature Immunology*, **2**, 1133 – 1137.

Schwartz, H., Jones, R.T., Rojas, A.R., Squillace, D.L., Yunginger, J.W., 1997, Occupational Allergic Rhinoconjunctivitis and Asthma Due to Fennel Seed, *Annals of Allergy, Asthma and Immunology,* **78** (1), 37 – 40.

Silva, C.J., Barbosa, L.C.A., Maltha, C.R.A., Pinheiro, A.L., Ismail, F.M.D., 2007, Comparative Study of The Essential Oils of Seven *Melaleuca* (Myrtaceae) Species Grown in Brazil, *Flavour and Fragrance Journal*, **22**, 474 – 478.

Simon, A. K., Hollander, G. A., dan McMichael, A., 2015, Evolution of the immune system in humans from infancy to old age," *Proceedings of the Royal Society B: Biological Sciences*, **282** (1821), 2014-3085.

Sigma, 2013, Freund's Adjuvant, Complete and Incomplete, www.sigmaaldrich.com, 7 April 2018.

Sinaga, E., 2016, Seminar Kefarmasian di Bali, 24 Juli 2016.

Singh, G., Maurya, S., de Lampasona, M.P., Catalan, C., 2006, Chemical Constituents, Antifungal and Antioxidative Potential of *Foeniculum vulgare* Volatile Oil and Its Acetone Extract, *Journal Food Control,* **17**, 745 – 752.

Soylu, S., Yigitbas, H., Soylu, E.M., Kurt, S., 2007, Antifungal Effects of Essential Oils from Oregano and Fennel On Sclerotinia sclerotiorum, *Journal of Applied Microbiology*, **103**, 1021 – 1030.

Stamatas, G.N., Nikolovski, J., Luedtke, M.A., 2010, Infant Skin Microstructure Assessed in Vivo Differs from Adult Skin Organization an At The Cellular Level, *Journal Pediatric Dermatology*, **27**, 125 – 131.

Stevens, M.A., 1967, Use of The Albino Guinea Pig to Detect The Skin Sensitizing Ability of Chemicals, *British Journal of Industrial Medicine*, **24**, 189-202.

Stropp, 1998, Guinea Pig Maximization Test (GPMT) : Excited Skin Syndrome 2 Examples, 4th Congress of the European Society of Contact Dermatitis, Helsinki.

Sueki, H., Gammal, C., Kudoh, K., Kligman, A.M., 2000, Hairless Guinea Pig Skin : Anatomical Basis for Studies of Cutaneous Biology, *European Journal of Dermaotology*, **10** (5), 357-64.

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
MINYAK ZAITUN DENGAN METODE GUINEA PIG MAXIMISATION TEST**
ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

Sutterwala, F.S., Ogura, Y., Szczepanik, M., Lara-Tejero, M., Lichtenberger, G.S., Grant, E.P., Bertin, J., Coyle, A.J., Galan, J.E., Askenase, P.W., Flavell, R.A., 2006, Critical role for NALP3/CIAS1/ Cryopyrin in innate and adaptive immunity through its regulation of caspase-1, *Immunity*, **24** (3), 317–327.

Tay, S.S., Roediger, B., Tong, P.L., 2013, The Skin Resident Immune Network, *Current Dermatology Reports*, **131**, 1974 – 1980.

Trayes, K.P., Studdiford, J.S., Pickle, S., Tully, A.S., 2013, Edema : Diagnosis and Management, *American Academy of Family Physicians,* **88** (2), 102 – 110.

UACC, 2018, Histology Sample Preparation, http://uacc.arizona.edu/research/shared-resources/tacmasr/histology/sample_prep, 29 April 2018.

UCDENVER, 2012, Harvesting Skin Samples for Histological Analysis, http://www.ucdenver.edu/academics/colleges/medicalschool/centers/StemCell/resources/histologycore/Documents/harvesting%20skin%20samples%202012.pdf, 29 April 2018.

Underwood, J, C, E., 1996, Patologi Umum dan Sistematik, diterjemahkan oleh Sarjadi, 3-10, Penerbit Buku Kedokteran EGC, Jakarta.

U.S. Environmental Protection Agency, 2003, Health Effects Test guidelines, *OPPTS,* **870**, 2600.

Visscher, M.O., Adam, R., Brink, S., Odio, M., 2014a, Newborn Infant Skin : Physiology, Development, and Care, *Clinics in Dermatology*, 1 – 37.

Visscher, M., Narendran, V., 2014b, The Ontogeny of Skin, *Advance in Wound Care*, **3**, 291– 30.

Vischer, M.O., Adam, R., Brink, S., Odio, M., 2015, Newborn Infant Skin : Phsiology, Development, and Care, *Clinics in Dermatology Elsevier BV,* **33** (3), 271 – 280.

Vossen, P., 2013, *Handbook of Olive Oil Analysis and Properties*, Second Ed, Aparicio R, Harwood J, editors, Springer, New York.

Walker, V.P., Akinbi, H.T., Meinzen-Derr, J., 2008, Host Defense Proteins on The Surface of Neonatal Skin : Implications for Innate Immunity, *Journal of Pediatrics*, **152**, 777 – 781.

Watanabe, H., Gaide, O., Petrilli, V., Martinon, F., Contassot, E., Roques, S., Kummer, J.A., Tschopp, J., French, L.E., 2007, Activation of the IL-1beta-

UNIVERSITAS
GADJAH MADA
**EVALUASI SENSITISASI KULIT PRODUK KRIM MINYAK TELON CAMPURAN MINYAK KAYU PUTIH, MINYAK ADAS, DAN
MINYAK ZAITUN DENGAN METODE GUINEA PIG MAXIMISATION TEST**
ZAHROTUL ULUM, drh. Retno Murwanti, M.P., Ph.D.
Universitas Gadjah Mada, 2018 | Diunduh dari http://etd.repository.ugm.ac.id/

processing inflammasome is involved in contact hypersensitivity, *The Journal of investigative dermatology*, **127** (8), 1956–1963.

Wiemann, C., Berthold, K., dan Heusene, A., 2002, Joint Positive Control Testing in Guinea Pig Skin Sensitization Tests A Harmonized Approach, *Journal Regulatory Toxicology and Pharmacology,* **35**, 14 -22.

Zola, H., 1997, The Development of Antibody Responses in the Infant, *Immunology and Cell Biology,* **75**, 587 – 590.