

DAFTAR PUSTAKA

1. Pastoriza S, Mesías M, Cabrera C, Rufián-Henares JA. Healthy Properties of Green and White Teas: An update. *Food Funct.* 2017; 8(8): 2650–62.
2. Setyamidjaja D. *Teh Budidaya dan Pengolahan Pascapanen*. 1st ed. Yogyakarta: Kanisius; 2000.
3. Gianfredi V, Nucci D, Abalsamo A, Acito M, Villarini M, Moretti M, dkk. Green Tea Consumption and Risk of Breast Cancer and Recurrence—A systematic Review and Meta-Analysis of Observational Studies. *Nutrients.* 2018; 10(12): 1–20.
4. Prasanth MI, Sivamaruthi BS, Chaiyasut C, Tencomnao T. A Review of the Role of Green Tea (*Camellia sinensis*) in Antiphotaging, Stress Resistance, Neuroprotection, and Autophagy. *Nutrients.* 2019; 11(2).
5. Franks M, Lawrence P, Abbaspourrad A, Dando R. The Influence of Water Composition on Flavor and Nutrient Extraction in Green and Black Tea. *Nutrients.* 2019; 11(1).
6. Lee LS, Kim SH, Kim YB, Kim YC. Quantitative Analysis of Major Constituents in Green Tea with Different Plucking Periods and Their Antioxidant Activity. *Molecules.* 2014; 19(7): 9173–86.
7. Fajar, Wrsiati LP, Suhendra L. Kandungan Senyawa Flavonoid dan Aktivitas Antioksidan Ekstrak Teh Hijau pada Perlakuan Suhu Awal dan Lama Penyeduhan. *Rekayasa dan Manaj Agroindustri.* 2018; 6(3): 196–202.

8. Sudaryat Y, Kusmiyati M, Pelangi C, Rustamsyah A. Aktivitas Antioksidan Seduhan Sepuluh Jenis Mutu Teh Hitam (*Camellia sinensis* (L) O .Kuntze) Indonesia. *J Penelitian Teh dan Kina*. 2015; 18(2): 95–100.
9. Hasanah SU, Hamdani S, Firmansyah A. Perbandingan Kadar Katekin dari Beberapa Jenis Kualitas Teh Hitam (*Camellia sinensis* L. [O] Kuntze) di Pusat Penelitian Teh dan Kina (PPTK) Gambung. *Indones J Pharm Sci Technol*. 2012; (1): 7–12.
10. Rabbani HR, Purwanto DA, Isnaeni. Effect of Guava Powder Addition on Epigallocatechin Gallate (EGCG) Content of Green Tea and Its Antioxidant Activity. *J Farm dan Ilmu Kefarmasian Indonesia*. 2019; 6(2): 85–9.
11. Xu YQ, Yu P, Zhou W. Combined Effect of pH and Temperature on The Stability and Antioxidant Capacity of Epigallocatechin Gallate (EGCG) in Aqueous System. *J Food Eng*. 2019; 250(1): 46–54.
12. Du GJ, Zhang Z, Wen XD, Yu C, Calway T, Yuan CS, dkk. Epigallocatechin Gallate (EGCG) is The Most Effective Cancer Chemopreventive Polyphenol in Green Tea. *Nutrients*. 2012; 4(11): 1679–91.
13. Sayuti K, Yenrina R. *Antioksidan Alami dan Sintetik*. 1st ed. Padang: Andalas University Press; 2015.
14. Anand A, Chawla J, Mahajan A, Sharma N, Khurana N. Therapeutic Potential of Epigallocatechin Gallate. *Int J Green Pharm*. 2017; 11(3): 364–70.
15. He J, Xu L, Yang L, Wang X. Epigallocatechin Gallate Is The Most

- Effective Catechin Against Antioxidant Stress Via Hydrogen Peroxide and Radical Scavenging Activity. *Med Sci Monit.* 2018; 24: 8198–206.
16. Wahyuni DK. *Toga Indonesia*. 1st ed. Surabaya: Airlangga University Press; 2016.
 17. Syah ANA. *Taklukkan Penyakit dengan Teh Hijau*. 1st ed. Jakarta: PT AgroMedia Pustaka; 2006.
 18. Effendi DS, Syakrir M, Yusron M, Wiratmo. Teh Budidaya & Pengolahan Pascapanen. *Kementrian Perkeb.* 2010;(1):9–11.
 19. Dalimoenthe LS, Wulansari R, Rezamela E. Dampak Perubahan Iklim Terhadap Produktivitas Pucuk Teh pada Berbagai Ketinggian Tempat. *J Littri.* 2016; 22(3): 135–41.
 20. Anjarsari IRD. Katekin teh Indonesia : Prospek dan Manfaatnya. *Kultivasi.* 2016; 15(2): 99–106.
 21. Noriko N. Potensi Daun Teh (*Camellia sinensis*) dan Daun Anting - anting *Acalypha indica* L. dalam Menghambat Pertumbuhan *Salmonella typhi*. *Al-Azhar Indones Seri Sains Dan Teknol.* 2013; 2(2): 104–10.
 22. Afzal M, Safer AM, Menon M. Green Tea Polyphenols and Their Potential Role in Health and Disease. *Inflammopharmacology.* 2015; 23(4): 151–61.
 23. Khalatbary AR, Khademi E. The Green Tea Polyphenolic Catechin Epigallocatechin Gallate and Neuroprotection. *Nutr Neurosci.* 2018; 0(0): 1–14.
 24. Mukhtar H, Ahmad N. Tea Polyphenols: Prevention of Cancer and Optimizing Health. *Am J Clin Nutr.* 2000; 71(6): 1698–702.

25. Nagao T, Hase T, Tokimitsu I. A Green Tea Extract High in Catechins Reduces Body Fat and Cardiovascular Risks in Humans. *Obesity*. 2007; 15(6): 1473–83.
26. Chaturvedula VSP, Prakash I. The Aroma, Taste, Color And Bioactive Constituents of Tea. *J Med Plants Res*. 2011; 5(11): 2110–24.
27. Balittri JT. Kandungan Senyawa Kimia pada Daun Teh (*Camellia sinensis*). Vol. 19, *Warta Penelitian dan Pengembangan Tanaman Industri*. 2013. 12–6.
28. Vermerris, Wilfred RN. *Phenolic Compound Biochemistry*. 1st ed. Netherlands: Springer; 2006.
29. Pietta PG. Flavonoids as Antioxidants. *J Nat Prod*. 2000; 63(7): 1035–42.
30. Yuslianti ER. *Pengantar Radikal Bebas dan Antioksidan*. 1st ed. Yogyakarta: Deepublish; 2018.
31. Winarsi H. *Antioksidan Alami & Radikal Bebas*. 1st ed. Yogyakarta: Kasinius; 2007.
32. Valko M, Rhodes CJ, Moncol J, Izakovic M, Mazur M. Free Radicals, Metals and Antioxidants in Oxidative Stress-Induced Cancer. *Chem Biol Interact*. 2006; 160(1): 1–40.
33. Purwanti L, Dasuki UA, Imawan AR. Perbandingan Aktivitas Antioksidan dari Seduhan 3 Merk Teh Hitam (*Camellia sinensis* (L.) Kuntze) dengan Metode Seduhan Berdasarkan SNI 01-1902-1995. *J Ilm Farm Farmasyifa*. 2019; 2(1): 19–25.
34. Mondal M, De S. Enrichment Of (–) Epigallocatechin Gallate (EGCG)

- from Aqueous Extract of Green Tea Leaves by Hollow Fiber Microfiltration: Modeling Of Flux Decline and Identification of Optimum Operating Conditions. *Sep Purif Technol.* 2018; 206(5): 107–17.
35. Paramita NLPV, Andani NMD, Putri IAPY, Indriyani NKS, Susanti NMP. Karakteristik Simplisia Teh Hitam dari Tanaman *Camelia Sinensis* Var. *Assamica* dari Perkebunan Teh Bali Cahaya Amerta, Desa Angseri, Kecamatan Baturiti, Kabupaten Tabanan, Bali. *J Kim.* 2019; 13(1): 58–66.
36. Moede FH, Gonggo ST, Ratman R. Pengaruh Lama Waktu Fermentasi terhadap Kadar Bioetanol dari Pati Ubi Jalar Kuning (*Ipomea batata* L.). *J Akad Kim.* 2017; 6(2): 86.
37. Rohdiana D. Teh : Proses, Karakteristik & Komponen Fungsionalnya. *Food Rev Indones.* 2015; 10(8): 34–7.
38. Chen YL, Duan J, Jiang YM, Shi J, Peng L, Xue S, dkk. Production, Quality, and Biological Effects of Oolong Tea (*Camellia sinensis*). *Food Rev Int.* 2011; 27(1): 1–15.
39. Widyawati PS, Budianta TDW, Werdani YDW, Halim MO. Aktivitas Antioksidan Minuman Daun Beluntas Teh Hitam (*Pluchea indica* Less-*Camelia sinensis*). *Agritech.* 2018; 38(2): 200–7.
40. Martinus BA, Arel A, Gusman A. Perbandingan Kadar Fenolat Total dan Aktivitas Antioksidan pada Ekstrak Daun Teh (*Camellia sinensis* [L.] O. K.) dari Kayu Aro dengan Produk Teh Hitamnya yang Telah Beredar. *Sci J Farm dan Kesehat.* 2014; 4(2): 75–80.
41. Martono Y, Martono S. Analisis Kromatografi Cair Kinerja Tinggi untuk

- Penetapan Kadar Asam Galat, Kafein dan Epigalokatekin Galat pada Beberapa Produk Teh Celup. *Agritech*. 2012; 32(04): 362–9.
42. Sang S, Lambert JD, Ho CT, Yang CS. The Chemistry and Biotransformation of Tea Constituents. *Pharmacol Res*. 2011; 64(2): 87–99.
 43. Hartoyo A. *Teh dan Khasiatnya bagi Kesehatan*. 1st ed. Yogyakarta: Kasinius; 2003.
 44. Janeiro P, Oliveira Brett AM. Catechin Electrochemical Oxidation Mechanisms. *Anal Chim Acta*. 2004; 518(1–2): 109–15.
 45. Susilo IT, Darmawati A, Purwanto DA. Optimasi Prosedur Ekstraksi Produk Teh Hitam untuk Penetapan Kadar EGCG Menggunakan Metode KCKT. *Berk Ilm Kim Farm*. 2016; 5(1): 1–5.
 46. Mereles D, Hunstein W. Epigallocatechin-3-Gallate (EGCG) for Clinical Trials: More Pitfalls Than Promises? *Int J Mol Sci*. 2011; 12(9): 5592–603.
 47. Min K, Kwon TK. Anticancer Effects and Molecular Mechanisms of Epigallocatechin-3-Gallate. *Integr Med Res*. 2014; 3(1): 16–24.
 48. Bartosikova L, Necas J. Epigallocatechin Gallate: A review. *Vet Med (Praha)*. 2018; 63(10): 443–67.
 49. Widyaningrum N, Sumarwati T, Sukryana WS. Efek Vitamin C dan E terhadap Stabilitas EGCG (Epigallocatechin Gallate) pada Fraksi Etil Asetat Ekstrak Daun Teh Hijau (*Camellia sinensis* L.). *J Ilm Farm*. 2019; 15(2): 80–5.
 50. Hirun S, Roach PD. An Improved Solvent Extraction Method for The

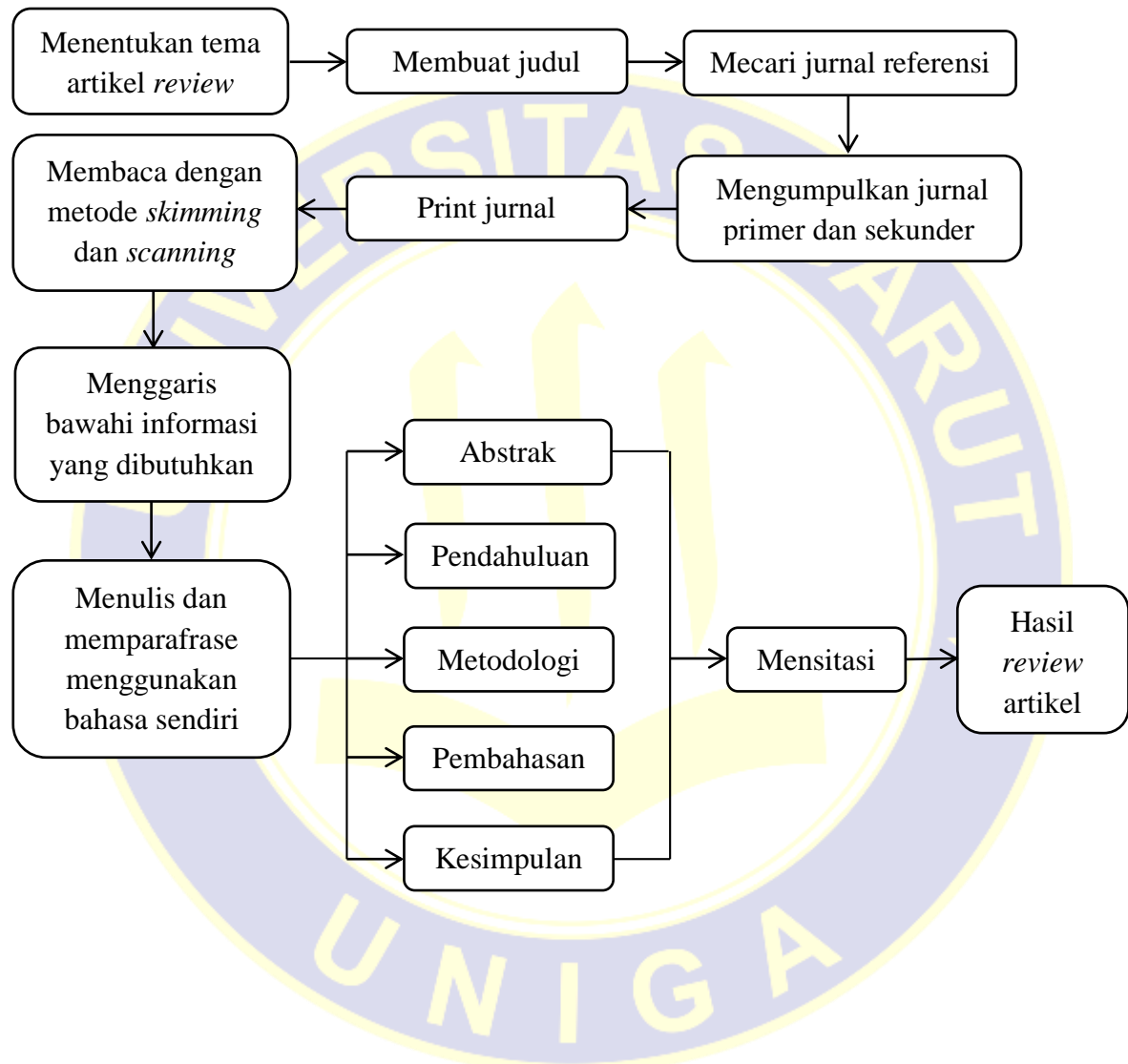
- Analysis of Catechins and Caffeine in Green Tea. *J Food Nutr Res.* 2011; 50(3): 160–6.
51. Lambert JD, Elias RJ. The Antioxidant and Pro-Oxidant Activities of Green Tea Polyphenols: A Role in Cancer Prevention. *Arch Biochem Biophys.* 2010; 501(1): 65–72
52. Ahmed NA, Radwan NM, Aboul Ezz HS, Salama NA. The Antioxidant Effect of Green Tea Mega EGCG Against Electromagnetic Radiation-Induced Oxidative Stress in The Hippocampus and Striatum of Rats. *Electromagn Biol Med.* 2016; 36(1): 63–73.
53. Zhong Y, Shahidi F. Lipophilized Epigallocatechin Gallate (EGCG) Derivatives As Novel Antioxidants. *J Agric Food Chem.* 2011; 59(12): 6526–33.
54. Sajilata MG, Bajaj PR, Singhal RS. Tea Polyphenols As Nutraceuticals. *Compr Rev Food Sci Food Saf.* 2008; 7(3): 229–54.
55. Leslie PJ, Gunawan S. Daun, Uji Fitokimia dan Perbandingan Efek Antioksidan pada Teh Hijau, Teh Hitam, dan Teh Putih (*Camellia sinensis*) dengan Metode DPPH (2, 2-difenil-1- pikrilhidrazil). *Tarumanagara Med J.* 2019; 1(2): 383–8.
56. Wang Y, Kong D, Gao Y, Ying L, Huang Q, Xu P. Chemical Characterization and Bioactivity of Phenolics from Tieguanyin Oolong Tea. *J Food Biochem.* 2019; 43(7): 1–9.
57. Widyastuti W, Kusuma AE, Nurlaili N, Sukmawati F. Antioxidant and Sunscreen Activities of Ethanol Extract of Strawberry Leaves (*Fragaria*

xananassa A.N. Duchesne). *J Sains Farm Klin.* 2016; 3(1): 19–24.

58. Arditiani A, Rochmawati N, Widinugroho, Puruhito, dkk. Suplemen Cincau Hitam dan Daun Bungur untuk Kolesterol, Hipertensi dan Diabetes. *J Pangan dan Agroindustri.* 2015; 3(1): 166–73.



LAMPIRAN 1

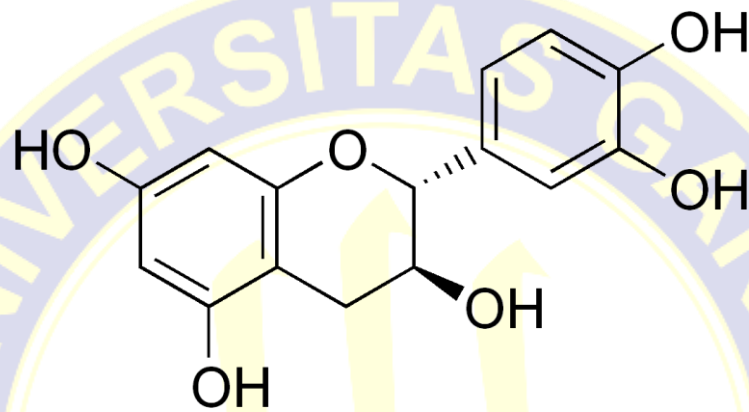
ALUR PEMBUATAN *REVIEW* ARTIKELGambar II.1 Skema alur pembuatan *review* artikel

LAMPIRAN 2**TANAMAN DAUN TEH (*Camellia sinensis* (L.) Kuntze)**

Gambar III.1 Tanaman teh (*Camellia sinensis* (L.) Kuntze)

UNIGA

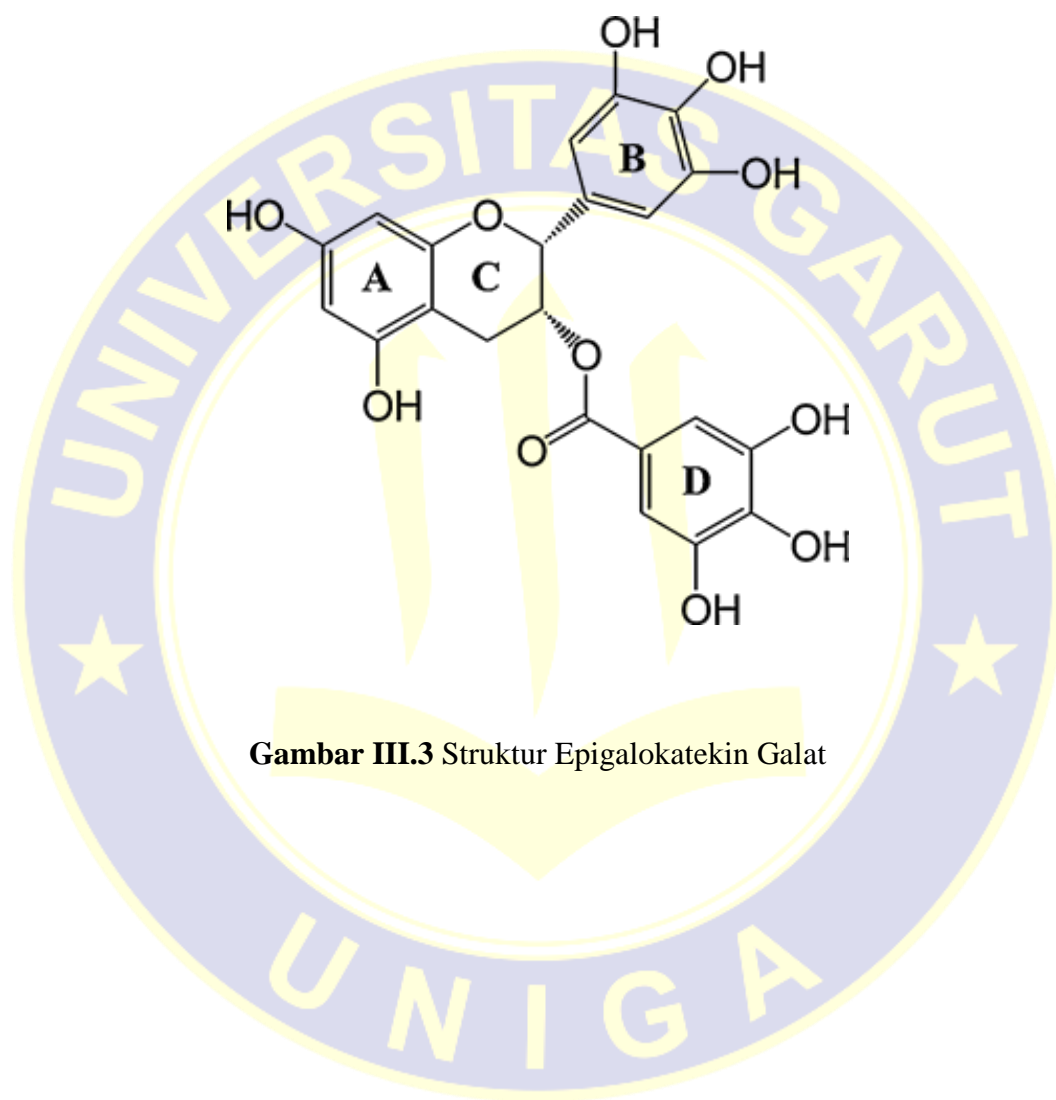
LAMPIRAN 3
SENYAWA KATEKIN



Gambar III.2 Struktur senyawa Katekin

LAMPIRAN 4

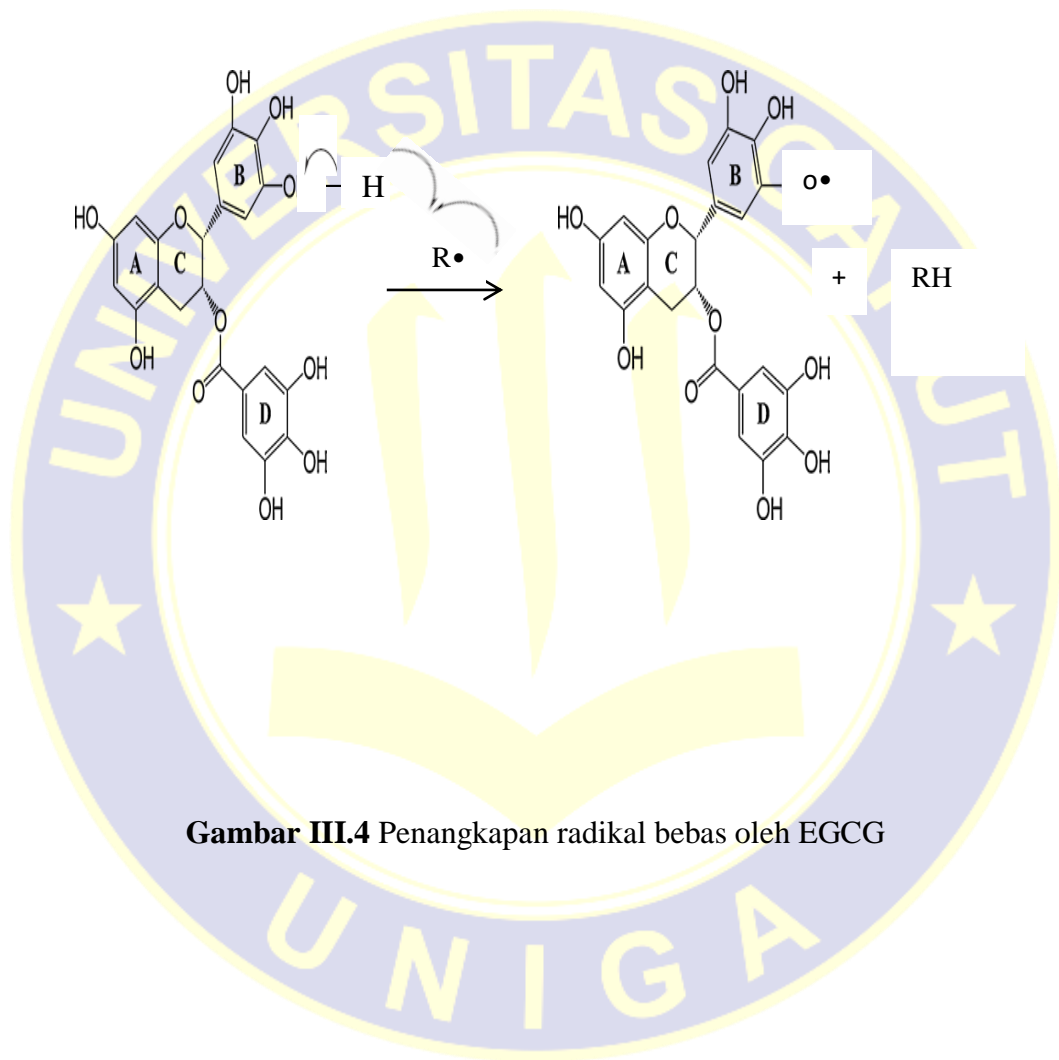
SENYAWA EPIGALOKATEKIN GALAT



Gambar III.3 Struktur Epigalokatekin Galat

LAMPIRAN 5

REAKSI RADIKAL BEBAS DENGAN EGCG

**Gambar III.4** Penangkapan radikal bebas oleh EGCG

LAMPIRAN 6**KANDUNGAN SENYAWA KATEKIN BERBAGAI JENIS TEH****Tabel III.1**

Senyawa Katekin yang Terdegradasi pada Pengolahan Berbagai Jenis Teh

Jenis Teh	Kandungan katekin sebelum pengolahan (%)	Kandungan katekin setelah pengolahan (%)	Katekin terdegradasi dalam pengolahan (%)
Teh Hijau	13,76	10,04	27,03
Teh Oolong	13,76	9,49	31,03
Teh Hitam	13,76	5,91	57,70

LAMPIRAN 7

KANDUNGAN SENYAWA EPIGALOKATEKIN GALAT DAN NILAI IC₅₀

Tabel III.2

Kandungan Senyawa Epigalokatekin Galat dan Nilai IC₅₀ pada Berbagai Teh

Jenis Teh	Substansi epigalokatekin galat (% berat kering)	IC ₅₀ (µg/mL)
Teh Hijau	3,28	58,61
Teh Oolong	3,14	117,56
Teh Hitam	2,21	137,60

LAMPIRAN 8
SIFAT ANTIOKSIDAN

Tabel III.3
Sifat Antioksidan Berdasarkan Nilai IC₅₀

Nilai IC₅₀	Sifat Antioksidan
Kurang dari 50 µg/mL	Sangat Kuat
50-100 µg/mL	Kuat
100-150 µg/mL	Sedang
150-200 µg/mL	Lemah

LAMPIRAN 9

BUKTI SUBMIT *REVIEW* ARTIKEL

The screenshot displays the 'Active Submissions' page of the Jurnal Pharmascience website. The page features a green header with the journal's title and contact information. A red navigation bar is located below the header. The main content area is white and contains the following text:

Home > User > Author > Submissions > Active Submissions

ACTIVE SUBMISSIONS

Submission complete. Thank you for your interest in publishing with Jurnal Pharmascience.

- Active Submissions

Jurnal Pharmascience Published BY:
Program Studi Farmasi Universitas Lambung Mangkurat

Jurnal Pharmascience is indexed by:

Logos for GARUDA (GARBA RUJUKAN DIGITAL), Google Scholar, and SINTA (Science and Technology Index) are displayed.

On the right side, there is an 'ADDITIONAL MENU' section with the following links:

- ONLINE SUBMISSION
- KEBIJAKAN OPEN ACCES
- AUTHOR GUIDELINES
- EDITORIAL TEAM
- REVIEWER
- KEBIJAKAN PLAGIARISME
- AUTHOR(S) FEE
- JOURNAL HISTORY
- CONTACT US

Below the menu, the 'USER' section indicates: 'You are logged in as... zahrahasnafadhilah17 My Journals'.

The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with the date 09/09/2020 and time 13:50.

LAMPIRAN 9 LANJUTAN

Active Submissions

ppjp.ulm.ac.id/journal/index.php/pharmascience/author

JURNAL PHARMASCIENCE

Publikasi Resmi Penelitian Bidang Kefarmasian dan Kesehatan
ISSN-Print : 2355-5386; ISSN-Online: 2460-9560
<https://ppjp.ulm.ac.id/journal/index.php/pharmascience>
jps@ulm.ac.id

HOME ABOUT USER HOME SEARCH CURRENT ARCHIVES ANNOUNCEMENTS INDEXING&ABSTRACTING FOCUS&SCOPE ETIKA PUBLIKASI

Home > User > Author > Active Submissions

ACTIVE SUBMISSIONS

ACTIVE ARCHIVE

ID	MM-DD SUBMIT	SEC	AUTHORS	TITLE	STATUS
9122	09-09	ART	fadhilah	REVIEW: TELAAH KANDUNGAN SENYAWA KATEKIN DAN...	Awaiting assignment

1 - 1 of 1 Items

START A NEW SUBMISSION

CLICK HERE to go to step one of the five-step submission process.

REFBACKS

ALL NEW PUBLISHED IGNORED

DATE ADDED	HITS	URL	ARTICLE	TITLE	STATUS	ACTION
There are currently no refbacks.						

Additional Menu:

- ONLINE SUBMISSION
- KEBIJAKAN OPEN ACCES
- AUTHOR GUIDELINES
- EDITORIAL TEAM
- REVIEWER
- KEBIJAKAN PLAGIARISME
- AUTHOR(S) FEE
- JOURNAL HISTORY
- CONTACT US

USER
You are logged in as...
zababaca@fadhilah17

Windows taskbar: Type here to search, 14:01, 09/09/2020

DAFTAR RIWAYAT HIDUP

Nama : Zahra Hasna Fadhilah

Tempat Tanggal Lahir : Bandung, 17 April 1998

Jenis Kelamin : Perempuan

Agama : Islam

Warga Negara : Indonesia

Alamat : Kp. Pasar Kaler RT/RW:02/02 Desa Balewangi
Kecamatan Cisarupan, Garut. 44163

Pendidikan Terakhir : Sarjana (S1) Jurusan Farmasi FMIPA Universitas
Garut

No. Telepon : 082118466737

Email : zahrahasna17@gmail.com

Riwayat Pendidikan:

SD	: SDN Balewangi 1	: 2003-2009
SMP	: SMPN 1 Cisurupan	: 2009-2012
SMA	: SMAN 11 Garut	: 2012-2015
Sarjana (S1)	: Universitas Garut	: 2016-2020

Pendidikan dan Latihan yang Pernah Diikuti:

1. Pelatihan Kedisiplinan dan Bela Negara (PBN)
2. Malam Bina dan Taqwa (MABIT)
3. Latihan Kepemimpinan (LK1)
4. Seminar Pharmalead An Inspiring Talkshow to Become Great Leaders
5. Character Building PPA LC GARUT
6. Seminar Kewirausahaan dan Pemuda Mandiri 2016
7. Seminar Peak Performance Training
8. Seminar Holistic Medicine
9. Pelatihan Instrumen Kimia Atomic Absorption Spectrophotometer (AAS) & Fourier Transform Infra Red (FTIR)
10. Pelatihan Instrumen High Performance Liquid Chromatography (HPLC)
11. Praktek Kerja Lapangan Apotek Asyifa
12. Praktek Kerja Lapangan Industri Ekstrak Bahan Alam Berkah Alam Nusantara