

LAMPIRAN

Lampiran 1. Formulir penilaian kualitas literatur (Hawker *et al.*, 2002)

Penulis dan Judul: _____

Tanggal: _____

No.	Bagian Literatur	Baik	Cukup	Kurang	Sangat Kurang	Catatan
1.	Judul dan abstrak					
2.	Latar belakang dan tujuan					
3.	Metode dan pengambilan data					
4.	Pengambilan sampel					
5.	Analisis data					
6.	Hasil penelitian					
Total						

Keterangan:

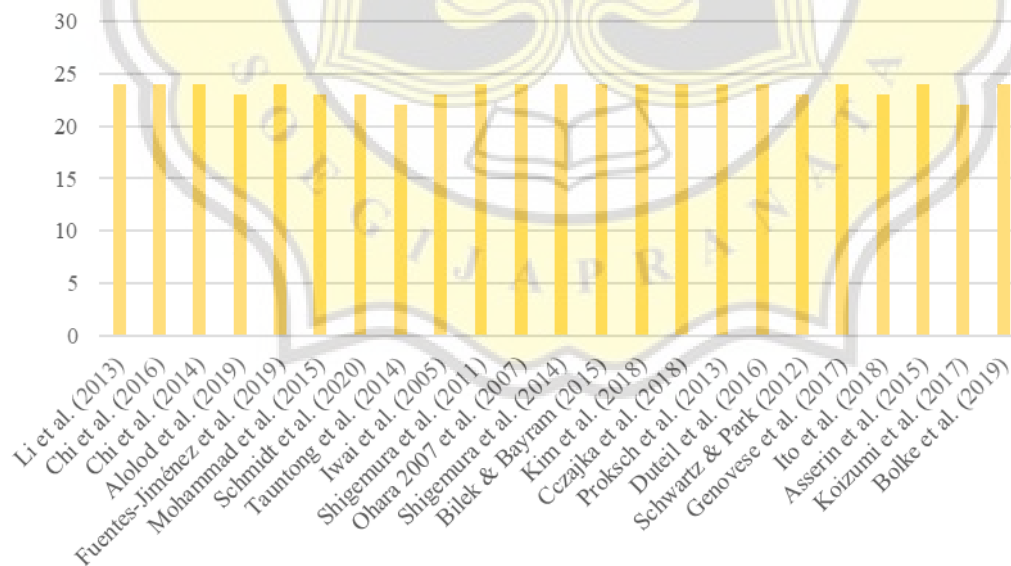
Baik = (4)

Cukup = (3)

Kurang = (2)

Sangat Kurang = (1)

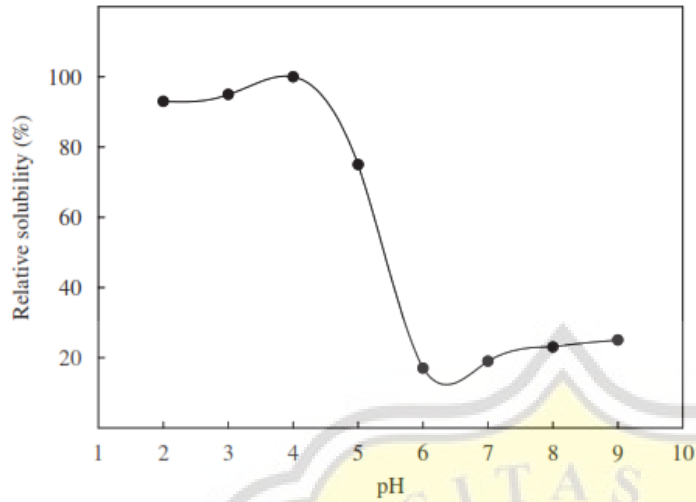
Lampiran 2. Hasil penilaian kualitas literatur yang ditinjau



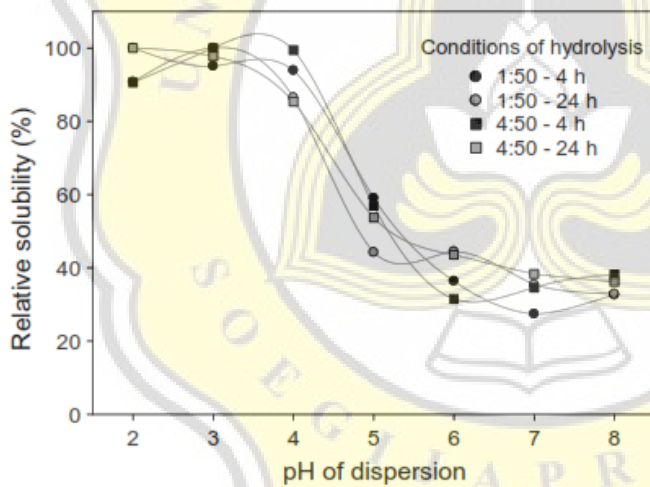
Lampiran 3. Kualitas jurnal sumber literatur berdasarkan ScopusPreview

Penulis	Judul Jurnal	Skor SJR 2020
Li <i>et al.</i> , 2013; Alolod <i>et al.</i> , 2019;	Food Research International	1,479
Chi <i>et al.</i> , 2016;	Journal of Aquatic Food Product Technology	0,397
Chi <i>et al.</i> , 2014;	Molecules	0,782
Fuentes-Jiménez <i>et al.</i> , 2019	International Journal of Molecular Sciences	1,455
Mohammad <i>et al.</i> , 2015	International Aquatic Research	0,425
Schmidt <i>et al.</i> , 2020	Food Science and Technology	0,488
Tauntong <i>et al.</i> , 2014	Kasetsart Journal – Natural Science	-
Iwai <i>et al.</i> , 2005; Ohara <i>et al.</i> , 2007	Journal of Agricultural and Food Chemistry	1,203
Shigemura <i>et al.</i> , 2011, 2014	Food Chemistry	1,772
Bilek & Bayram, 2015	Journal of Functional Foods	0,994
Kim <i>et al.</i> , 2018; Bolke <i>et al.</i> , 2019	Nutrients	1,418
Czajka <i>et al.</i> , 2018	Nutrition Research	0,842
Proksch <i>et al.</i> , 2013;	Skin Pharmacology and Physiology	0,703
Genovese <i>et al.</i> , 2017	The Journal of Aging Research & Clinical Practice	-
Duteil <i>et al.</i> , 2016	Clinical Interventions in Aging	1,184
Schwartz & Park, 2012	Marine Drugs	0,848
Ito <i>et al.</i> , 2018	Journal of Cosmetic Dermatology	0,626
Asserin <i>et al.</i> , 2015	International Journal of Peptide Research and Therapeutics	0,304
Koizumi <i>et al.</i> , 2017		

Lampiran 4. Kelarutan larutan PSC (0,3%) kulit dorsal *Thunnus albacares* pada berbagai jenis pH (Woo *et al.*, 2008)



Lampiran 5. Kelarutan PSC byssus *Mytilus sp.* hasil hidrolisis dengan kondisi berbeda pada berbagai jenis pH (Rodriguez *et al.*, 2017)



Lampiran 6. Rumus perhitungan bioavailabilitas relatif (F_r) dan absolut (F_s) (Wang *et al.*, 2014, 2015)

$$F_r = \frac{[AUC]_{col} D_{col}}{[AUC]_{i.g.} D_{i.g.}} \times 100\% \qquad F_s = \frac{[AUC]_{col} D_{col}}{[AUC]_{i.v.} D_{i.v.}} \times 100\%$$

Keterangan:

- [AUC]_{col} = area di bawah kurva konsentrasi-waktu untuk Hyp di dalam kolagen atau gelatin
- [AUC]_{i.g.} = area di bawah kurva konsentrasi-waktu untuk Hyp (i.g.)
- [AUC]_{i.v.} = area di bawah kurva konsentrasi-waktu untuk Hyp (i.v.)
- D_{col} = dosis kolagen atau gelatin
- D_{i.g.} = dosis Hyp (i.g.)
- D_{i.v.} = dosis Hyp (i.v.)

Lampiran 7. Tabel parameter farmakokinetik Hyp di dalam plasma darah tikus setelah konsumsi kolagen dan Hyp (Wang *et al.*, 2015)

	Hyp in collagen (i.g.) ^a	Hyp (i.g.)	Hyp (i.v.)
AUC (h·µg/mL)	436 ± 54.2 c	753 ± 16.1 b	877 ± 42.8 a
t _{1/2} (h)	6.91 ± 1.09 a	1.18 ± 0.22 b	0.35 ± 0.04 c
MRT (h)	10.8 ± 1.73 a	3.45 ± 0.13 b	3.74 ± 0.61 b
C _{max} (µg/mL)	40.4 ± 5.46 c	173 ± 25.2 b	660 ± 68.0 a
T _{max} (h)	2.00 ± 0.00 a	0.83 ± 0.29 b	0.08 ± 0.00 c

^aMean value ± standard deviation from separate determination of six rats. Values with different superscripts in a row are significantly different at $P < 0.05$.

Keterangan tabel:

- AUC = area di bawah kurva konsentrasi-waktu
t_{1/2} = half life
MRT = Mean Residence Time
C_{max} = konsentrasi maksimum
T_{max} = waktu yang dibutuhkan untuk mencapai konsentrasi maksimum
i.g. = intragastrik
i.v. = intravena

Lampiran 8. Tabel parameter farmakokinetik Hyp di dalam plasma darah tikus setelah konsumsi gelatin dan Hyp (Wang *et al.*, 2014)

Parameter	Hyp in gelatin (i.g.) ^a	Hyp (i.g.)	Hyp (i.v.)
AUC (h µg mL ⁻¹)	557.84 ± 22.58 ^c	752.63 ± 16.10 ^b	648.84 ± 39.02 ^b
t _{1/2} (h)	6.40 ± 1.15 ^a	1.18 ± 0.22 ^b	0.81 ± 0.10 ^c
MRT (h)	10.51 ± 1.70 ^a	3.45 ± 0.13 ^c	4.61 ± 0.65 ^b
C _{max} (µg mL ⁻¹)	57.11 ± 8.18 ^c	172.54 ± 25.18 ^b	230.34 ± 10.57 ^a
T _{max} (h)	4.00 ± 0.00 ^a	0.83 ± 0.29 ^b	0.50 ± 0.00 ^c

^aResults are given as the mean value ± standard deviation from six separate samples. Values followed by different superscript letters are significantly different at $P < 0.05$.

Keterangan tabel:

- AUC = area di bawah kurva konsentrasi-waktu
t_{1/2} = half life
MRT = Mean Residence Time
C_{max} = konsentrasi maksimum
T_{max} = waktu yang dibutuhkan untuk mencapai konsentrasi maksimum
i.g. = intragastrik
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Lampiran 9. Peptida yang terdeteksi di dalam darah manusia setelah konsumsi hidrolisat kolagen (Iwai *et al.*, 2005)

sequence	porcine type I	chicken type I	chicken type II
Ala-Hyp-Gly	nd ^a	>3%	>4%
Pro-Hyp	95%	92%	>70%
Pro-Hyp-Gly	nd	>3%	>19%
Ile-Hyp	>1%	>1%	>1%
Leu-Hyp	>3%	>1%	>5%
Phe-Hyp	>1%	>1%	>1%

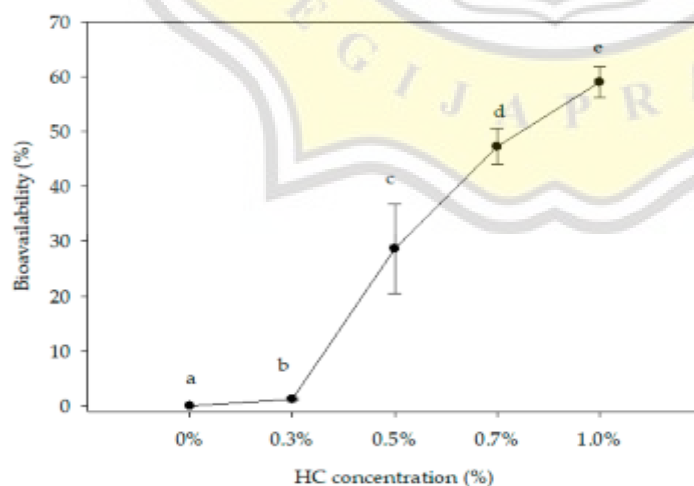
^a Not detected.

Lampiran 10. Peptida yang terdeteksi di dalam darah manusia setelah konsumsi hidrolisat kolagen (Ohara *et al.*, 2007)

sequence	fish scale	fish skin	porcine skin
Ala-Hyp	15%	15%	nd ^a
Ala-Hyp-Gly	16%	nd	nd
Ser-Hyp-Gly	12%	nd	nd
Pro-Hyp	39%	42%	95%
Pro-Hyp-Gly	5%	3%	nd
Ile-Hyp	2%	7%	>1%
Leu-Hyp	10%	27%	>3%
Phe-Hyp	3%	7%	>1%

^a Not detected.

Lampiran 11. Bioavailabilitas *in vitro* minuman whey dengan berbagai konsentrasi hidrolisat kolagen (León-López *et al.*, 2020)



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