

DAFTAR ISI

	Halaman
LEMBAR PERSETUJUAN SIDANG SKRIPSI	Error!
Bookmark not defined.	
LEMBAR PERSETUJUAN PROPOSAL	Error!
Bookmark not defined.	
HALAMAN PERNYATAAN KEASLIAN	iv
HALAMAN PENGESAHAN	v
UCAPAN TERIMA KASIH	Error!
Bookmark not defined.	
ABSTRAK	vii
ABSTRACT	vii
BAB I PENDAHULUAN	Error!
Bookmark not defined.	
1.1 Latar Belakang	
.....	Error
! Bookmark not defined.	
1.2 Rumusan Masalah	
.....	Error
! Bookmark not defined.	
1.3 Tujuan Penelitian.....	
.....	Error
! Bookmark not defined.	
1.4 Manfaat Penelitian.....	
.....	Error
! Bookmark not defined.	
BAB II TINJAUAN PUSTAKA	Error!
Bookmark not defined.	
2.1 Tabir Surya	
.....	Error
! Bookmark not defined.	
2.2 Klasifikasi Tabir Surya	
.....	Error
! Bookmark not defined.	
2.3 Uji Aktivitas Tabir Surya.....	
.....	Error
! Bookmark not defined.	

2.3.1 Sun protection factor (SPF).....	
Error! Bookmark not defined.	
2.3.2 Rasio UVA/UVB.....	
Error! Bookmark not defined.	
2.3.3 Panjang gelombang kritis (λ_c).....	
Error! Bookmark not defined.	
2.3.4 Uji Fotostabilitas	
Error! Bookmark not defined.	
2.4 Reaksi kondensasi Claisen-Schmidt (KCS).....	
.....	Error
! Bookmark not defined.	
2.5 Dibenzalaseton	
.....	Error
! Bookmark not defined.	
2.6 4-hidroksibenzaldehida.....	
.....	Error
! Bookmark not defined.	
BAB III METODE PENELITIAN	Error!
Bookmark not defined.	
3.1 Rancangan Penelitian	
.....	Error
! Bookmark not defined.	
3.2 Alat dan Bahan.....	
.....	Error
! Bookmark not defined.	
3.2.1 Alat	
Error! Bookmark not defined.	
3.2.2 Bahan.....	
Error! Bookmark not defined.	
3.3 Prosedur Kerja.....	
.....	Error
! Bookmark not defined.	
3.3.1 Pembuatan Larutan.....	
Error! Bookmark not defined.	
3.3.1.1 Pembuatan Eluen Untuk Uji Kromatografi Lapis Tipis (KLT).....	
Error! Bookmark not defined.	
3.4 Sintesis senyawa 2.....	
.....	Error
! Bookmark not defined.	
3.5 Identifikasi konsentrasi larutan sampel	
.....	Error
! Bookmark not defined.	

3.5.1 Pembuatan larutan induk senyawa 1 dan 2 (50mg/L).....	
Error! Bookmark not defined.	
3.5.2 Uji spektrofotometri UV	
Error! Bookmark not defined.	
3.4 Uji Fotostabilitas	
Error! Bookmark not defined.	
3.6 Uji Antioksidan dengan Metode DPPH.....	
Error! Bookmark not defined.	
3.6.1 Pembuatan larutan DPPH 0,2 mM	
Error! Bookmark not defined.	
BAB IV HASIL DAN PEMBAHASAN.....	Error!
Bookmark not defined.	
4.1 Hasil	Error!
Bookmark not defined.	
4.1.1 Sintesis Senyawa Target	
Error! Bookmark not defined.	
4.1.1.1 Produk senyawa 1	
Error! Bookmark not defined.	
4.1.1.2 Produk senyawa 2.....	
Error! Bookmark not defined.	
4.1.2 Identifikasi konsentrasi larutan sampel.....	
Error! Bookmark not defined.	
4.1.2.1 Uji Kromatografi lapis Tipis (KLT)	
Error! Bookmark not defined.	
4.1.2.2 Uji spektrofotometer UV panjang gelombang maksimum (λ_{maks}) dan (ϵ) ...	
Error! Bookmark not defined.	
4.1.3.1 Penentuan nilai SPF.....	
Error! Bookmark not defined.	
4.1.3.2 Penentuan panjang gelombang kritis λ_c	
Error! Bookmark not defined.	
4.1.3.3 Penentuan nilai rasio UVA/UVB	
Error! Bookmark not defined.	
4.1.3.4 Uji fotostabilitas	
Error! Bookmark not defined.	
1). Senyawa 1.....	
Error! Bookmark not defined.	
2). Senyawa 2.....	
Error! Bookmark not defined.	
4.1.3.5 Uji antioksidan dengan metode DPPH	
Error! Bookmark not defined.	

1). Senyawa 1 dan 2	Error! Bookmark not defined.
4.1.3.6 Pengukuran aktivitas pengikatan radikal bebas sampel dengan DPPH	Error! Bookmark not defined.
1). Senyawa 1.....	Error! Bookmark not defined.
2). Senyawa 2.....	Error! Bookmark not defined.
4.2 Pembahasan	Error! Bookmark not defined.
BAB V KESIMPULAN DAN SARAN	Error!
Bookmark not defined.	
5.1 Kesimpulan	Error
! Bookmark not defined.	
5.2 Saran.....	Error
! Bookmark not defined.	

DAFTAR TABEL

	Halaman
Tabel 2.1 Ketentuan level fotoproteksi terhadap radiasi UVA berdasarkan nilai rasio UVA/UVB.....	7
Tabel 2.2 Ketentuan level fotoproteksi berdasarkan nilai λ_c	8
Tabel 3.1 Perbandingan konsentrasi dan absorbansi nilai ϵ	
Error! Bookmark not defined.	

Tabel 3.2 Penentuan Nilai SPF.....	Error! Bookmark not defined.
Tabel 4.1 Penentuan nilai SPF senyawa 1 (8 mg/L).....	Error! Bookmark not defined.
Tabel 4.2 Penentuan nilai SPF senyawa 2 (24 mg/L).....	Error
.....	! Bookmark not defined.
Tabel 4.3 konsentrasi larutan vitamin C	Error
.....	! Bookmark not defined.
Tabel 4.4 Hasil pengukuran absorbansi dan konsentrasi senyawa 1	Error
.....	! Bookmark not defined.
Tabel 4.5 Hasil absorbansi dan konsentrasi senyawa 2	Error
.....	! Bookmark not defined.

DAFTAR GAMBAR

	Halaman
Gambar 1.1 Struktur senyawa 1 dan 2	Error
! Bookmark not defined.	
Gambar 2.1 Mekanisme reaksi KCS dengan katalis basa	Error
! Bookmark not defined.	
Gambar 2.2 Mekanisme reaksi KCS dengan katalis asam	Error
! Bookmark not defined.	
Gambar 2. 3 Struktur isomer dibenzalaseton	Error
! Bookmark not defined.	
Gambar 2.4 Tahap reaksi sintesis dibenzalaseton	Error
! Bookmark not defined.	
Gambar 2.5 Struktur senyawa 4-hidroksibenzaldehida	Error
! Bookmark not defined.	
Gambar 3.1 Rancangan penelitian	Error
! Bookmark not defined.	
Gambar 4. 1 Sintesis padatan senyawa 1	Error
! Bookmark not defined.	
Gambar 4. 2 Sintesis padatan senyawa 2	Error
! Bookmark not defined.	
Gambar 4. 3 Hasil uji KLT senyawa 2	Error
! Bookmark not defined.	
Gambar 4. 4 Spektra serapan UV senyawa 1	Error
! Bookmark not defined.	
Gambar 4. 5 Kurva kalibrasi dan penentuan nilai konstanta serapan molar (ϵ) senyawa 1	Error
! Bookmark not defined.	

Gambar 4. 6 Spektra serapan UV senyawa 2	Error
! Bookmark not defined.	
Gambar 4. 7 Kurva kalibrasi dan penentuan nilai konstanta serapan molar (ϵ) senyawa 2	Error
! Bookmark not defined.	
Gambar 4. 8 fotostabilitas senyawa 1	Error
! Bookmark not defined.	
Gambar 4. 9 fotostabilitas senyawa 2	Error
! Bookmark not defined.	
Gambar 4. 10 Kurva regresi linear dan % inhibisi vitamin C	Error
! Bookmark not defined.	
Gambar 4. 11 Kurva regresi linear dan % inhibisi senyawa 1	Error
! Bookmark not defined.	
Gambar 4. 12 Kurva regresi linear dan % inhibisi senyawa 2	Error
! Bookmark not defined.	

DAFTAR LAMPIRAN

	Halaman
Lampiran 1. 1 Spektra IR aseton	Error
.....	Error
! Bookmark not defined.	
Lampiran 1. 2 Spektra IR 4-hidroksibenzaldehida	Error
.....	Error
! Bookmark not defined.	
Lampiran 1. 3 Sintesis senyawa 1	Error
.....	Error
! Bookmark not defined.	
Lampiran 1. 4 Proses sintesis 1	Error
.....	Error
! Bookmark not defined.	
Lampiran 1. 5 Proses pengendapan senyawa 1	Error
.....	Error
! Bookmark not defined.	
Lampiran 1. 6 Proses penyaringan senyawa 1	Error
.....	Error
! Bookmark not defined.	
Lampiran 1. 7 Hasil uji KLT senyawa 1	Error
.....	Error
! Bookmark not defined.	
Lampiran 1. 8 Proses uji fotostabilitas senyawa 1	Error
.....	Error
! Bookmark not defined.	
Lampiran 1. 9 Larutan senyawa 1 ditambahkan DPPH senyawa 1	Error
.....	Error
! Bookmark not defined.	
Lampiran 2. 1 Sintesis senyawa 2.....	Error! Bookmark not defined.
.....	Error! Bookmark not defined.
Lampiran 2. 2 Proses sintesis senyawa 2	Error! Bookmark not defined.
.....	Error! Bookmark not defined.
Lampiran 2. 3 Proses pengendapan senyawa 2	Error! Bookmark not defined.
.....	Error! Bookmark not defined.
Lampiran 2. 4 Proses penyaringan senyawa 2	Error! Bookmark not defined.
.....	Error! Bookmark not defined.

Lampiran 2. 5 Hasil uji KLT sintesis senyawa 2.....	Error! Bookmark not defined.
Lampiran 2. 6 Hasil uji KLT setelah ekstraksi senyawa 2	Error! Bookmark not defined.
Lampiran 2. 7 Hasil uji KLT murni setelah dikolom senyawa 2	Error! Bookmark not defined.
Lampiran 2. 8 Proses uji fotostabilitas senyawa 2.....	Error! Bookmark not defined.
Lampiran 2. 9 Larutan sampel DPPH senyawa 2	Error! Bookmark not defined.
Lampiran 3. 1 Perhitungan bahan senyawa 1 dan 2	Error! Bookmark not defined.
Lampiran 3. 2 Perhitungan rendeman senyawa senyawa 1 dan 2	Error! Bookmark not defined.
Lampiran 4. 1 Data penentuan konstanta serapan molar (ϵ) senyawa 1 dan 2.....	Error! Bookmark not defined.
Lampiran 4. 2 Rumus perhitungan penentuan konstanta serapan molar (ϵ) senyawa 1 dan 2.....	Error! Bookmark not defined.
Lampiran 5. 1 Data penentuan nilai SPF senyawa 1 dan 2.....	Error! Bookmark not defined.
Lampiran 5. 2 Rumus perhitungan nilai SPF senyawa 1 dan 2.....	Error! Bookmark not defined.
Lampiran 6. 1 Data penentuan nilai rasio UVA/UVB senyawa 1 dan 2	Error! Bookmark not defined.
Lampiran 6. 2 Rumus perhitungan nilai rasio UVA/UVB senyawa 1 dan 2	Error! Bookmark not defined.
Lampiran 7. 1 Data uji fotostabilitas senyawa 1 dan 2	Error! Bookmark not defined.
Lampiran 7. 2 Rumus perhitungan uji fotostabilitas senyawa 1 dan 2	Error! Bookmark not defined.