

Adanya zona bening pada senyawa (15a-15u) mungkin disebabkan karena zat aktif pada senyawa tersebut mampu menembus dinding sel dan merusak sintesis protein bakteri/fungi. Dari hasil tersebut dapat diasumsikan bahwa ke sembilan senyawa mampu menghambat aktivitas bakteri *B.subtilis*, bakteri *P.aureginosa* dan fungi *Candida albicans*.

VI. KESIMPULAN

- Analog calkon dapat disintesis melalui kondensasi Claisen-Schmidt antara keton aromatik dan aldehid aromatik dengan rendemen yang bervariasi.
- Rendahnya rendemen untuk turunan calkon yang mengandung gugus hidroksi diduga karena senyawa tersebut larut dalam campuran air dan etanol sehingga tidak muncul endapan.
- Untuk senyawa calkon turunan 2-hidroksi asetofenon, karena muncul reaksi samping sehingga terbentuk senyawa flavanon.
- Secara umum calkon yang tersubstitusi pada cincin B menunjukkan aktivitas sebagai antimikroba namun daya hambatnya sedikit lebih rendah dibanding streptomisin.

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