

BAB 5

SIMPULAN DAN SARAN

5.1. Simpulan

Berdasarkan hasil percobaan, konsentrasi Eudragit L100-55 berpengaruh signifikan terhadap semua respon yang dihasilkan dari percobaan yaitu tampilan visual, penambahan bobot, kekerasan dan waktu hancur, untuk faktor PEG 400 memiliki pengaruh yang signifikan terhadap respon tampilan visual dan penambahan bobot dan interaksi kedua komponen tersebut memiliki pengaruh yang signifikan hanya terhadap respon tampilan visual. Persamaan matematis yang didapatkan dari *design expert* meliputi tampilan visual $Y = 97,08 - 0,73 X_A + 0,71 X_B + 0,74 X_A X_B$, penambahan bobot $Y = 3,23 + 0,083 X_A + 0,18 X_B + 0,033 X_A X_B$, kekerasan $Y = 6,44 + 0,39 X_A + 8,33 X_B + 0,025 X_A X_B$ dan waktu hancur $Y = 6,26 + 0,86 X_A - 0,092 X_B + 0,11 X_A X_B$.

Formula optimum tablet salut enterik kulit buah manggis (*Garcinia mangostana* L.) dapat diperoleh dengan menggunakan konsentrasi Eudragit L100-55 sebesar 8% dengan konsentrasi PEG 400 sebesar 0,2%. Respon yang dihasilkan dari konsentrasi dari kombinasi kedua komponen tersebut yaitu tampilan visual, penambahan bobot, kekerasan dan waktu hancur dapat memenuhi persyaratan yaitu tampilan visual 94,4%, penambahan bobot 3,1%, kekerasan 6,8 kgf dan waktu hancur dalam media dapar 7,1 menit.

5.2. Saran

Pembuktian formula optimum dari tablet salut enterik ekstrak kulit buah manggis terpilih yang kemudian hasilnya dibandingkan dengan persyaratan teoritis. Perlu juga dilakukan uji kualitatif dan kuantitatif senyawa aktif dalam ekstrak kulit buah manggis dengan metode yang lebih teliti serta efek farmakologi dari tablet salut enterik ekstrak kulit buah manggis (*Garcinia mangostana* L.)

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