

## BAB V KESIMPULAN DAN SARAN

### A. Kesimpulan

1. Spektrofotometri dengan pendekatan kemometrika *partial least squares-1* dapat dikembangkan dalam analisis simultan kadar asam benzoat dan asam salisilat.
2. Metode spektrofotometri dengan pendekatan kemometrika *partial least squares-1* memenuhi beberapa persyaratan parameter validasi, yakni linearitas dan presisi untuk kedua senyawa asam benzoat dan asam salisilat. Sedangkan untuk akurasi, hanya asam salisilat yang memenuhi persyaratan.
3. Metode spektrofotometri dengan pendekatan kemometrika yang telah dikembangkan dapat diaplikasikan dalam analisis simultan senyawa asam benzoat dan asam salisilat dalam larutan sampel dengan rata-rata perolehan kembali sebesar 92,20-102,32% untuk asam salisilat dan 109,97-114,411% untuk asam benzoat.

### A. Saran

1. Perlu dilakukan pengembangan menggunakan pelarut lain, seperti akuades.
2. Perlu dilakukan penyesuaian matriks sampel agar sama dengan kondisi sampel sebenarnya, sehingga pengaruh dari senyawa-senyawa lain di dalam sampel dapat teratasi.

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