Supporting Informations

A Highly Efficient and Practical Method for Synthesis of 2,2'-Azino-bis(3-ethyl-Benzothiazoline-6-Sulphonic acid) and its Diammonium Salt (ABTS)

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One pot synthesis of 2, 2'-azino-bis(3-ethylbenzothiazoline) 5

3-ethyl-2-iminobenzothiazoline bromide salt (5.02 g, 20 mmol) was dissolved in 20 ml of alcohol, and hydrazine hydrate (0.6 ml, 85%, 10 mmol) was added dropwise with stirring, and the reaction mixture was refluxed for 12 hours and then cooled the reaction mixture. The yellow crystalline solid separated was filtered, washed with water and recrystallization from ethanol to afford 2, 2'-azino-bis(3-ethylbenzothiazoline) **5** in 87% yield .

¹H NMR, ¹³C NMR and MS spectra