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Synthesis and Antimicrobial screening of some new azocompoundsderivedfrom thiazole ring modified

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Abstract: The presentedworkinvolved the preparation of newAzocompoundscontainingaromaticheterocyclic (thiazol ring) derivedfromsubstitutedaminobenzoicacid. The preparationprocedureinvolves a series of steps the first stepincludes the reaction of synthesized 2-aminothiazol compounds withnitrousacidat (0)°C to form the correspondingdiazoniumsalts. The second stepinvolvedcoupling the newlysynthesizeddiazoniumsaltswithdifferent amines and phenols. All the preparedcompounds in thisworkwerecharacterized by melting point and softening points withotherphysicalproperties, FTIR, H^1-NMR spectra, Screening of the antimicrobialactivity of the preparedazo compounds wastestedagainsttwo types of bacteria; Gram positive (*Stapylococcusaureus)* andGramnegative (*Escherichia coli*).
Keywards: Diazoniumsalts, Azo compound, Aminothiazole ring

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