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Reactivity of different Salmonella antigens with alcoholic extracts of different plants

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Background: Extracts of different plants are being used in tribal populations against typhoid fever since a long time. In this regard the efficacy of the extracts of *Baptisia tinctoria* is well known. In an initial study by us we found that *Baptisia* extract could react with *Salmonella* antigens in vitro. Thus in this study we explored whether *Salmonella* antigens could also react with other plant extracts.

Methods: Alcoholic extracts of 53 different plants were prepared as per standard pharmacological protocols. Twenty *Salmonella* serotypes with known antigenic formula were used as *Salmonella* antigens as per prescribed antigen preparation methods in suspensions. After this they were allowed to react in vitro under suitable temperature, pH and ionic environments.

Results: Some plant extracts showed non-specific reactions against all *Salmonella* serotypes, some specifically showed reactions with typhoidal *Salmonella* serotypes only, and many others showed specific reactions with a single serotype only.

Conclusions: These reactivities of different plant extracts with *Salmonella* antigen suspensions may help in immunological and therapeutic ventures in future.