

The present disclosure relates to novel immunogenic multivalent polysaccharide-protein conjugate vaccine compositions comprising a polysaccharide selected from strains *Salmonella* serovar typhi; *S. enteritidis* serovar paratyphi A; and alternative improved methods of polysaccharide fermentation, polysaccharide purification, polysaccharide-protein conjugation and stable formulation. The present disclosure further relates to methods for inducing an immune response in subjects against *Salmonella* typhi and non-typhi related diseases and/or for reducing or preventing *Salmonella* typhi and non-typhi related diseases in subjects using the compositions disclosed herein. The vaccine elicits bactericidal antibodies and is useful for prevention of gastroenteritis, enteric and typhoid fever.