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## Synthesis and applications of cell wall glycopolymer fragments from Staphilococci and Enterococci

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# **Synthesis and application of cell wall glycopolymer fragments from Staphylococci and Enterococci**

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## List of Abbreviations

Ac <sub>2</sub> O	<i>Acetic anhydride</i>	Me	<i>Methyl</i>
AcCl	<i>Acetyl chloride</i>	MeOH	<i>Methanol</i>
ACN	<i>Acetonitrile</i>	MP	<i>Methoxyphenyl</i>
AcOH	<i>Acetic acid</i>	MRSA	<i>Methicillin resistant S. aureus</i>
AcSH	<i>Thioacetic acid</i>	NaOMe	<i>Sodium methoxide</i>
AgOTf	<i>Silver trifluoromethanesulfonate</i>	Nap	<i>Naphthyl</i>
Ala	<i>Alanine</i>	N-Cbz	<i>N-carboxybenzyl</i>
BAIB	<i>(Diacetoxyiodo)benzene</i>	NIS	<i>N-Iodosuccinimide</i>
Bn	<i>Benzyl</i>	NMR	<i>Nuclear Magnetic Resonance</i>
bs	<i>broad singlet</i>	OPA	<i>Opsonophagocytic assay</i>
BSA	<i>Bovine serum albumine</i>	OPIA	<i>Opsonophagocytic inhibition assay</i>
BSP	<i>1-Benzene-sulfonyl piperidine</i>	PBS	<i>Phosphate-buffered saline</i>
Bu	<i>Butyl</i>	PMB	<i>p-Methoxybenzyl</i>
CAN	<i>Ammonium Cerium(IV) Nitrate</i>	PNAG	<i>Poly-β(1-6)-N-acetylglucosamine</i>
CPG	<i>Controlled pore glass</i>	PPh <sub>3</sub> O	<i>Triphenylphosphine oxide</i>
CPs	<i>Capsular polysaccharides</i>	Py	<i>Piridine</i>
CSO	<i>(10-Camphorsulfonyl)oxaziridine</i>	quant.	<i>quantitative</i>
d	<i>doublet</i>	RboP	<i>Ribitolphosphate</i>
DBU	<i>1,8-Diazabicyclo[5.4.0]undec-7-ene</i>	rEPA	<i>Replication initiation proteins</i>
DCA	<i>Dichloroacetic acid</i>	s	<i>singlet</i>
DCC	<i>N,N'-Dicyclohexylcarbodiimide</i>	Sbox	<i>S-Benzoxazolyl</i>
DCI	<i>4,5-Dicyanoimidazole</i>	t	<i>triplet</i>
DCM	<i>Dichloromethane</i>	TBAB	<i>Tetrabutylammonium bromide</i>
DDQ	<i>2,3-Dichloro-5,6-dicyano-1,4-benzoquinone</i>	TBAF	<i>Tetrabutylammonium fluoride</i>
DIPEA	<i>N,N-Diisopropylethylamine</i>	TBAI	<i>Tetrabutylammonium iodide</i>
DMAP	<i>4-Dimethylaminopyridine</i>	TBAN <sub>3</sub>	<i>Tetrabutylammonium azide</i>

DMF	<i>Dimethylformamide</i>	TBDMS	<i>tert-Butyldimethylsilyl</i>
DMTr	<i>4,4'-Dimethoxytrityl</i>	TBDPS	<i>tert-Butyldiphenylsilyl</i>
dPNAG	<i>Deacetylated PNAG</i>	TBSOTf	<i>tert-Butyldimethylsilyl trifluoromethanesulfonate</i>
DPS	<i>Diphenylsulfoxide</i>	<i>t</i> -BuOH	<i>tert-Butyl alcohol</i>
EDCI	<i>1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide</i>	TCEP	<i>tris(2-carboxyethyl)phosphine hydrochloride</i>
ELISA	<i>Enzyme-linked immunosorbent assay</i>	TEMPO	<i>(2,2,6,6-Tetramethylpiperidin-1-yl)oxyl</i>
Et	<i>Ethyl</i>	Tf <sub>2</sub> O	<i>Trifluoromethanesulfonic anhydride</i>
TEA	<i>Triethylamine</i>	TFA	<i>Trifluoroacetic acid</i>
EtOH	<i>Ethanol</i>	TfOH	<i>Triflic acid</i>
GalNAc	<i>N-acetyl-galactosamine</i>	THF	<i>Tetrahydrofuran</i>
GalNAc A	<i>N-acetyl-D-galacturonic acid A</i>	TMSI	<i>Trimethylsilyl iodide</i>
GlcNAc	<i>N-acetyl-glucosamine</i>	TMSOTf	<i>Trimethylsilyl trifluoromethanesulfonate</i>
GroP	<i>Glycerolphosphate</i>	Troc	<i>2,2,2-Trichloroethoxycarbonyl chloride</i>
Hla	<i>S.aureus alpha toxin</i>	TT	<i>Tetanus Toxoid</i>
Lev	<i>Levulinoyl</i>	TTBP	<i>2,4,6-Tri-tert-butylphenol</i>
LTA	<i>Lipoteichoic Acids</i>	WHO	<i>World Health Organization</i>
m	<i>multiplet</i>	WTA	<i>Wall Teichoic Acids</i>