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**Structural and serological characterization of 5,7-diamino-3,5,7,9-tetradecoxy-non-2-ulosonic acid isolated from lipopolysaccharides of *Vibrio parahaemolyticus* O2 and O-untypeable strain KX-V212**

Noritaka Hashii (橋井則貴), Yasunori Isshiki (一色恭徳), Takehiro Iguchi (井口毅裕), Kazuhito Hitsatsune, Seiichi Kondo (近藤誠一)

Department of Microbiology, School of Pharmaceutical Sciences, Josai University, Sakado, Saitama 350-0295, Japan

Lipopolysaccharides (LPS) of *Vibrio parahaemolyticus* O2 and O-untypeable (OUT) strain (KX-V212) isolated from a individual patient were shown to contain 5,7-diamino-3,5,7,9-tetradecoxy-non-2-ulosonic acid (Non1A) which was readily released from LPS by mild acid hydrolysis. GC-MS and NMR analysis identified the Non1A from LPS of O2 LPS to be 5,7-diacetamidido-3,5,7,9-tetradecoxy-D-*glycero*-D-*galacto*-non-2-ulosonic acid (5NAc7NAcNon1A) and that from LPS of KX-V212 to be 5-acetamido-7-(*N*-acetyl-D-alanyl)amino-3,5,7,9-tetradecoxy-D-*glycero*-D-*galacto*-non-2-ulosonic acid (5NAc7NAlaNAcNon1A). ELISA inhibition analysis using 5NAc7NAcNon1A, 5NAc7NAlaNAcNon1A and N-deacylated and N-acetylated 5NAc7NAlaNAcNon1A suggested that 5NAc7NAcNon1A might be related to the serological specificity of O2 LPS as one of main epitope(s) involved in O2 LPS.