Validation data for LPS-EK Ultrapure

https://www.invivogen.com/lps-ek

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Version 23F14-AK

LPS-EK is a preparation of a rough (r)-form of lipopolysaccharide (LPS) purified from the Gram-negative *E. coli* K12, a prototypical laboratory strain. It is the preferred model in biochemical genetics, molecular biology, and biotechnology. LPS-EK Ultrapure (UP) is extracted by successive enzymatic hydrolysis steps and purified by the previously described phenol-TEA-DOC extraction protocol. This process removes contaminating lipoproteins. Therefore LPS-EK UP only activates TLR4, as verified using InvivoGen's HEK-Blue™ hTLR2 and HEK-Blue™ hTLR4 cells **(Figure 1)**.

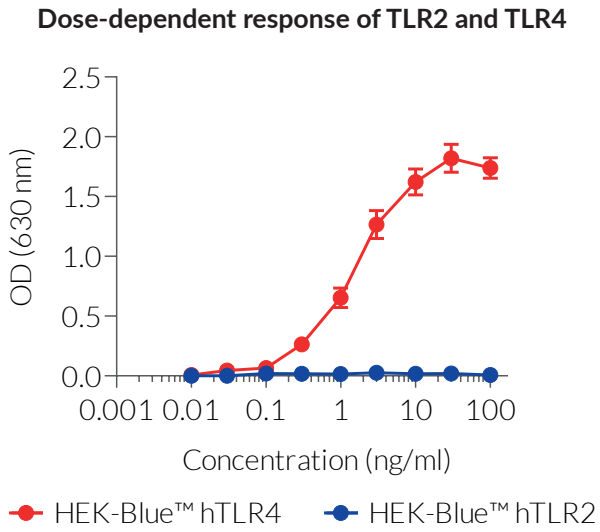

Figure 1. LPS-EK UP is a potent activator of human (h)TLR4. The cells were incubated with increasing concentrations of LPS-EK UP. After overnight incubation in HEK-Blue™ detection medium, a SEAP detection growth medium, the response of hTLR2 and hTLR4 was assessed by determining the presence of SEAP in the supernatant. Data are expressed as optical density at 630 nm (±SEM).

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