

**Product:** **Anti-*Escherichia coli* 0:111 J5 Mutant  
Heat Inactivated Bacteria**  
**Catalog #:** **13-2390**  
**Amount:** **100 ml**

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**CATEGORY:** **Sheep Polyclonal**  
**IMMUNOGEN:** Escherichia coli J5 (Rc mutant) (ATCC) was grown in nutrient agar. Culture was centrifuge, washed and the precipitated bacteria were aliquoted. and autoclaved at 121°C. For immunization the bacteria were suspended in isotonic saline at 10<sup>10</sup> cfu./ml. The J5 mutant (Heath) of E. coli 0:111 lacks the enzyme uridine diphosphate glucose-4-epimerase and therefore produces an incomplete LPS, deficient in galactose and all the sugars distal to the central polymers. Thus the J5 mutant has no O-specific chains, and its endotoxin remains core LPS containing lipid A, N-Acetyl glucosamine, 2-keto-3-deoxyoctonate (KDO), heptose and glucose. This composition is similar to that of the Rc strains of Salmonella.

**FORM:** Ig Fraction  
**ASSAY SYSTEM:** Enzyme Immunoassay

1. Coat plates saponified LPS (treatment of LPS with N NaOH, neutralize with HCL (100 µl/Well @ 1 µg/ml)
2. Block and wash
3. Add test sheep antisera in serial dilution
4. Incubate, wash and add conjugate (donkey anti-sheep HRP)
5. Incubate, wash and add substrate (TMB)
6. Stop reaction (H<sub>2</sub>SO<sub>4</sub>) and read plates at 450 nm
7. Working dilution is the maximum dilutant at which OD of 1.0 is achieved

**TITER:** 1:1,000 - 1: 4,000  
**STORAGE:** 2-8°C for immediate use, or at -20°C (aliquot)

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