

Endotoxin - Free Water

Catalog No. COO112 **Quantity:** 100 ml

Description: Endotoxin-free water for cytokine sample preparation in aqueous solution. Endotoxin is a complex lipopolysaccharide (LPS) which is a major component of the outer membrane of most-gram negative bacteria. LPS consists of a very hydrophobic lipid group (lipid A) covalently bound to a long complex polysaccharide tail. Endotoxin has been shown to affect cell growth and function as well as being a source of significant variability. This is especially true when using cells known to be sensitive to the low endotoxin levels that are commonly found in cell culture system.

Endotoxin Level: <0.05 EU/ml by Limulus ameocyte lysate (LAL) gel clot assay. According to US Pharmacopeia (USP), the endotoxin limit of sterile water for in vivo use is below 0.25 EU/ml by LAL assay.
(EU/ml: A quantification of endotoxin levels relative to a specific quantity of reference endotoxin. 1 EU/ml is approximately equal to 0.1 ng/ml.)

Applications: Currently, most commercially prepared media are tested for endotoxin and certified to contain less than 0.1 ng/ml of endotoxin (<1 EU/ml). For laboratory prepared media, the endotoxin level will be determined primarily by the endotoxin level of the water used to dissolve the other components. Therefore endotoxin-free water is essential in preparing media and solutions.

Storage & Stability: The product is shipped at ambient temperature. Upon receipt, store it at 2 to 25 °C under sterile conditions. Stable for 2 years.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.