

BIOXYTECH® Urinary 8-Epi-Prostaglandin-F_{2α}

Enzyme Immunoassay for Urinary Isoprostane

For Research Use Only. Not For Use In Diagnostic Procedures.

Catalog Number 21048

INTRODUCTION

The BIOXYTECH® Urinary 8-Epi-Prostaglandin-F_{2α} Assay is a competitive enzyme-linked immunoassay (ELISA) for determining levels of 8-epi-prostaglandin-F_{2α} in urine samples. Briefly, the samples are mixed with a pretreatment reagent that essentially eliminates interferences due to non-specific binding. The 8-epi-prostaglandin-F_{2α} in the sample or standard then competes with 8-epi-prostaglandin-F_{2α} conjugated to horseradish peroxidase (HRP Conjugate) for binding to a polyclonal antibody specific for 8-epi-prostaglandin-F_{2α} coated on the microplate. Following substrate addition, the intensity of the color is inversely proportional to the amount of unconjugated 8-epi-prostaglandin-F_{2α} in the sample or standard.

Catalog Number	21048																		
Format	96 Well Plate																		
Specimen Requirements	Urine																		
Storage and Stability	6 months from the date of manufacture																		
Kit Contents	<ul style="list-style-type: none">• 96-well microtiter plate, pre-coated with 8-epi-prostaglandin-F_{2α} antibody• 8-epi-prostaglandin-F_{2α} Standards• Pretreatment Reagent• Dilution Buffer• Wash Buffer• TMB Substrate (Tetramethylbenzidine)• HRP Conjugate• Disposable reagent troughs for a multichannel pipettor• ELISA Template• Stop Solution																		
Specificity	<table border="0"><tr><td>• 8-epi-Prostaglandin F_{2α}</td><td>100.0%</td></tr><tr><td>• 9α,11β-Prostaglandin F_{2α}</td><td>4.1%</td></tr><tr><td>• 13,14-Dihydro-15-Keto-PGF_{2α}</td><td>3.0%</td></tr><tr><td>• 9α,11β-Prostaglandin F_{2α}</td><td><0.01%</td></tr><tr><td>• Prostaglandin F_{2α}</td><td><0.01%</td></tr><tr><td>• 6-Keto-Prostaglandin F_{1α}</td><td><0.01%</td></tr><tr><td>• Prostaglandin E₂</td><td><0.01%</td></tr><tr><td>• Prostaglandin D₂</td><td><0.01%</td></tr><tr><td>• Arachidonic Acid</td><td><0.01%</td></tr></table>	• 8-epi-Prostaglandin F _{2α}	100.0%	• 9α,11β-Prostaglandin F _{2α}	4.1%	• 13,14-Dihydro-15-Keto-PGF _{2α}	3.0%	• 9α,11β-Prostaglandin F _{2α}	<0.01%	• Prostaglandin F _{2α}	<0.01%	• 6-Keto-Prostaglandin F _{1α}	<0.01%	• Prostaglandin E ₂	<0.01%	• Prostaglandin D ₂	<0.01%	• Arachidonic Acid	<0.01%
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Sensitivity	0.1 ng/mL																		