

## BIOXYTECH<sup>®</sup> Urinary 8-Epi-Prostaglandin-F<sub>2α</sub>

### Enzyme Immunoassay for Urinary Isoprostane

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

Catalog Number 21048

#### **INTRODUCTION**

The BIOXYTECH<sup>®</sup> Urinary 8-Epi-Prostaglandin-F<sub>2α</sub> Assay is a competitive enzyme-linked immunoassay (ELISA) for determining levels of 8-epi-prostaglandin-F<sub>2α</sub> 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<sub>2α</sub> in the sample or standard then competes with 8-epi-prostaglandin-F<sub>2α</sub> conjugated to horseradish peroxidase (HRP Conjugate) for binding to a polyclonal antibody specific for 8-epi-prostaglandin-F<sub>2α</sub> coated on the microplate. Following substrate addition, the intensity of the color is inversely proportional to the amount of unconjugated 8-epi-prostaglandin-F<sub>2α</sub> in the sample or standard.

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