

# F<sub>2</sub>-Isoprostane/Creatinine

**CPT Code:** 82542/82570

**Order Code:** C261

**Includes:** F<sub>2</sub>-isoprostane, Urine Creatinine

**ABN Requirement:** No

**Synonyms:** F<sub>2</sub> Iso; F<sub>2</sub>-IsoPs; F<sub>2</sub>αIsoprostane; IsoPF<sub>2</sub>α; F<sub>2</sub>CR

**Specimen:** Random Urine

**Volume:** 2.0 mL

**Minimum Volume:** 1.5 mL

**Container:** Urine specimen tube (Yellow Top tube without preservative)

## Collection:

1. Collect urine sample according to standard protocols.
2. Transfer aliquot from a clean urine cup into a Yellow Top tube using the vacutainer transfer device included with the Yellow Top tube.
3. Label sample according to standard protocols.

**Transport:** Store urine at 2°C to 8°C after collection and ship the same day per packaging instructions provided with the Cleveland HeartLab shipping box.

## Stability:

**Ambient (15-25°C):** 48 hours

**Refrigerated (2-8°C):** 7 days

**Frozen (-20°C):** 6 months

**Deep Frozen (-70°C):** 6 months

**Causes for Rejection:** Specimens other than preservative-free urine; improper labeling; samples not stored properly; samples older than stability limits

**Methodology:** LC MS/MS

**Turn Around Time:** 2 to 5 days

## Reference Range:

Age

ng/mg creatinine

All Ages	<0.86
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*Elevated urinary F<sub>2</sub>-Isoprostanes are associated with an increased risk of coronary heart disease (CHD) (1). (Reference: 1-Schwedhelm et al. Circulation. 2004; 109: 843-848.)*

**Intended Use:** The F<sub>2</sub>-isoprostane/creatinine is the “gold standard” for measuring oxidative stress and has utility in individuals who have lifestyle risks due to poor diet or smoking, a family history of cardiovascular disease, or hyperlipidemia. High levels are seen in conditions associated with increased risk of atherosclerosis and certain cancers.

**Limitations:** Conditions that result in excessive generation of free radicals, including atherosclerosis, smoking and alcoholism, can result in increased levels of urinary isoprostanes.

**Additional Information:** The measurement of urinary isoprostanes is also used to assess efficacy of antioxidants in vivo.

*The CPT codes provided are based on AMA guidelines and are for informational purposes only. CPT coding is the sole responsibility of the billing party. Please direct any questions regarding coding to the payer being billed.*