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## Hypertension (14,15-DHET) ELISA kit

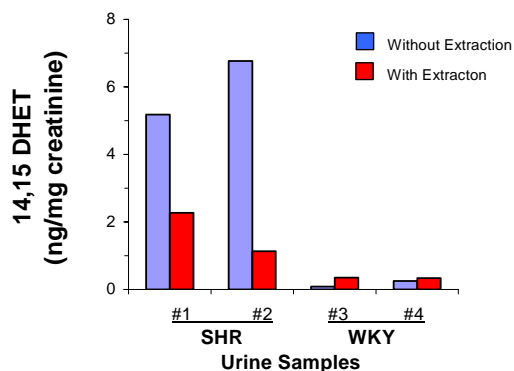
**Cat # DH 1: ELISA kit for measuring 14,15-DHET in biological samples: \$175/kit**

This competitive ELISA kit is for determination of 14,15-DHET levels in biological samples. Specificity of the ELISA has been published<sup>1,2</sup>. The 14,15-DHET level exhibited strong positive correlation with hypertension in rodents<sup>1,3,4</sup>. 14,15-DHET is a representative metabolite of soluble epoxide hydrolase-mediated metabolism of EETs, which are generated by arachidonic acid epoxygenase activity of cytochromes P450<sup>5</sup>. Human blood 14,15-DHET levels were measured using the 14,15-DHET ELISA kit<sup>6</sup>. Increased 14,15-DHET levels of human cells as detected by the 14,15-DHET ELISA were indicative of the neoplastic phenotype of carcinoma cells<sup>7</sup>.

Each kit for triplicate analyses of up to 24 samples contains one 96 well plate, one tube of 14,15-DHET standard, one tube of 14,15-DHET-conjugated horseradish peroxidase (HRP), and buffers for sample and HRP dilutions, and plate washing.

**Cat # DH 11: 2X ELISA kits for measuring 14,15-DHET in biological samples: 2X \$165=\$330**

**Cat # DH 21: 5X ELISA kits for measuring 14,15-DHET in biological samples: 5X \$150=\$750**



SHR: Spontaneously Hypertensive Rats  
WKY: Normotensive Wistar Kyoto Rats

<sup>1</sup>United States patent application No.: 09/578,821 (priority date, 5/28/99). One divisional patent was allowed in 2/12/2002 and two divisional patents are pending.

<sup>2</sup>Garson et al. Computational characterization of a series of eicosanoids. *Lett. Drug Design & Discovery* 2, 239, 2005.

<sup>3</sup>Sinal et al. Targeted disruption of soluble epoxide hydrolase reveals a role in blood pressure regulation. *J. Biol. Chem.* 275, 40504, 2000.

<sup>4</sup>Yu et al. Soluble epoxide hydrolase regulates hydrolysis of vasoactive epoxyeicosatrienoic acids. *Circulation Research* 87, 992, 2000.

<sup>5</sup>Makita et al. Cytochrome P450, the arachidonic acid cascade, and hypertension: new vistas for an old enzyme system. *FASEB J.* 10, 1456, 1996, and references therein.

<sup>6</sup>Spiecker et al. Risk of coronary artery disease associated with polymorphism of the cytochrome p450 epoxygenase CYP2J2. *Circulation* 110, 2132, 2004.

<sup>7</sup>Jiang et al. Cytochrome P450 2J2 promotes the neoplastic phenotype of carcinoma cells and is up-regulated in human tumors. *Cancer Res.* 65, 4707, 2005.