# Hemin Assay Kit

**Cat. No.** Kit-0438 **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Hemin Assay Kit is used for quantitating hemin. |
| **Description** | Free hemin results from the breakdown of hemin-containing proteins such as hemoglobin and myoglobin. It can be detected in various body fluids such as saliva, urine and csf under various pathological states. Free hemin exists in cells at a very minute concentrations (< 1μM ≃ 650 ng/ml) exerting regulatory functions such as repression of nonspecific δ-aminolevulinate synthase expression and induction of microsomal hemin oxygenase-1. Hemin can stimulate growth of oral bacteria involved in gingivitis and is an indicator of possible pathological conditions when found in the urine or feces. The Hemin Assay Kit utilizes peroxidase activity in the presence of hemin to provide a simple, exquisitely sensitive assay which causes the conversion of a colorless probe to a strongly colored (λ = 570) compound. Trace amounts of Hemin can be quantitated in the 5-160 pg (10-250 fmol) range. |
| **Target Species** | Mammals |
| **Usage** | For research use only (RUO) |
| **Storage** | Store kit at 4°C, protect from light. Warm Probe to room temperature before use. Enzyme Mix dissolve in Hemin Assay Buffer, mix well. Store at -20°C. Briefly centrifuge all small vials prior to opening. Read the entire protocol before the assay. |
| **Kit Components** | Components 100 Assays Cap CodeHemin Assay Buffer 25 ml WMHemin Probe (in DMSO) 0.2 ml RedEnzyme Mix 1 vial GreenHemin Substrate 1 ml BlueHemin |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| | Standard (1 nmol; lyophilized) 1 vial Yellow |
| **Detection method** | Colorimetric |
| **Compatible Sample Types** | Biological Fluid, Cell Culture Supernatant, Food Sample, Growth Medium, Plasma, Serum, Tissue Culture Supernatant, Urine |

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