**CYP450-GP**

**PRODUCT NUMBER HLM-015**  
**HUMAN LIVER MICROSONES, CYP2C9-ENRICHED**  
**LOT #C8911**

**PROTEIN CONTENT** = 20.0 mg/ml  
**P450 CONTENT** = 6.3 nmol/ml  
**SPECIFIC CONTENT** = 0.32 nmol P450/mg protein

Microsomes were prepared from donor liver obtained from a single subject using conventional homogenization and centrifugation techniques. Liver microsomes are provided in a solution containing 10 mM potassium phosphate buffer (pH 7.4) and 250 mM sucrose. The sample exhibits a typical P450 ferrous carbonyl absorption spectrum with minimal P420 content. Individual P450 enzyme content, which was assessed by immunoblotting with specific antibodies, is shown below.

- **CYP2C8**: 13.6 (12.7 ± 1.2; n = 18)
- **CYP2C9***: 127.6 (85.3 ± 29; n = 20)
- **CYP2C19**: 10.0 (13.8 ± 1.3; n = 19)
- **CYP2E1**: 103 (88.7 ± 3.7; n = 21)
- **CYP3A4**: 62 (50.9 ± 2.8; n = 21)
- **CYP4A11**: 6-6 (39.7 ± 2.2; n = 21)

*CYP2C9, CYP2C19, CYP2C8 and CYP4A11 are expressed as pmol/mg protein whereas CYP2E1 and CYP3A4 are ranked against the levels of these microsomal enzymes in a “standard” subject.

*Values in parentheses denote the P450 enzyme content (mean ± S.D) in liver microsomes from 13 -21 different individuals.

**Activity**  
A CYP2C9-promoted reaction, such as tolbutamide 4-hydroxylation, was not measured with this sample.

**Storage**  
Microsomes should be stored @ -70°C. To avoid repeated freeze-thawing cycles, small volume aliquots can be prepared.