CYP450-GP

PRODUCT NUMBER HLM-024
HUMAN LIVER MICROSOMES, CYP2E1-DEFICIENT
LOT #N505

PROTEIN CONTENT = 19.0 mg/ml
P450 CONTENT = 3.1 nmol/ml
SPECIFIC CONTENT = 0.17 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.

<table>
<thead>
<tr>
<th>Enzyme</th>
<th>Value (mean ± S.D)</th>
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<tbody>
<tr>
<td>CYP2E1</td>
<td>9.9 (92.1 ± 47; n = 33)</td>
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<tr>
<td>CYP4A11</td>
<td>81.6 (41.6 ± 21; n = 33)</td>
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<tr>
<td>CYP4F2</td>
<td>26.5 (16.4 ± 19; n = 28)</td>
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</tbody>
</table>

*CYP4A11 and CYP4F2 are expressed as pmol/mg protein whereas CYP2E1 values are ranked against the levels of this 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

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