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for the insolubilization of proteins.

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(ii)
**GALACTOSE**

**GLUCURONIDES**

*Another FIRST from Sigma*

**COMPLETE OFFERING OF ENZYMES AND SUBSTRATES FOR “LELOIR PATHWAY”**

**GALACTOSE METABOLISM • GLUCURONIDE SYNTHESIS**

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Enzyme</th>
<th>Product</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>GAL-1-P</td>
<td>Phosphoglucomutase</td>
<td>G-6-P</td>
<td>UDPG</td>
</tr>
<tr>
<td>Galactose-1-Phosphate</td>
<td>Uridine Diphosphoglucose Uridyl Transferase</td>
<td>UTP</td>
<td>UDPGA</td>
</tr>
<tr>
<td>GAL-1-P</td>
<td>Fructose-6-Phosphate</td>
<td>UTP</td>
<td>UDPG</td>
</tr>
</tbody>
</table>

**GLYCOLYTIC CYCLE**

For the first time, all enzymes and substrates for the “LeLoir Pathway”, Galactose Metabolism and Glucuronide Synthesis are available. Many of the following preparations are offered here for the first time anywhere. Prices are tentative. Many have already been substantially reduced. Others will be reduced as demand warrants. Since most enzymes are about 30% more active at 30°C than at 25°C, reactions performed at higher temperatures may result in savings in time and material.

**GALACTOKINASE**

GO130 From Yeast. Present lot contains 75% Buffer Salts. Approx. 50-50 units/mg Protein

<table>
<thead>
<tr>
<th>Units</th>
<th>Price</th>
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<tbody>
<tr>
<td>2 units</td>
<td>$5.50</td>
</tr>
<tr>
<td>5 units</td>
<td>$10.00</td>
</tr>
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**GALACTOSE-1-PHOSPHATE**

G8128 From Yeast. Present lot contains approx. 55% Buffer Salts. Approx. 2 units/mg Protein

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<tr>
<td>5 units</td>
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</tbody>
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**PHOSPHOGLOCOMUTASE**

P7502 From Rabbit Muscle. Crystalline, Ammonium Sulfate Suspension. 80-130 units/mg Protein. Unit Definition: One unit will convert one μMole of G-1-P to G-6-P per ml of 0.1 N HCl at pH 8.0 at 25°C.

<table>
<thead>
<tr>
<th>Units</th>
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<tbody>
<tr>
<td>200 units</td>
<td>$7.90</td>
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<tr>
<td>500 units</td>
<td>$15.80</td>
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**UREIDYL TRANSFERASE**

G4322 From Yeast. Present lot contains approx. 85% Buffer Salts. Approx. 2 units/mg Protein

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<td>2 units</td>
<td>$5.00</td>
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<tr>
<td>5 units</td>
<td>$10.00</td>
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**URIDINE-5’-DIPHOSPHOGLUCOSE DEHYDRGENASE**

US500 Powder, Buffered preparation. From Bovine liver. Approx. 500 units/mg Protein

<table>
<thead>
<tr>
<th>Units</th>
<th>Price</th>
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<tr>
<td>10,000 units</td>
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<tr>
<td>50,000 units</td>
<td>$33.00</td>
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**URIDINE-5’-DIPHOSPHOGLUCOSE PYROPHOSPHOLYSE**

U1052 From Yeast. Ammonium Sulfate Suspension. App. 45 units/mg Protein

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<thead>
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<th>Units</th>
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<tr>
<td>25 units</td>
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<tr>
<td>500 units</td>
<td>$12.00</td>
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</table>

**URIDINE-5’-DIPHOSPHOGLUCURONYL TRANSFERASE**

U3626 From Rabbit liver. Crude microsomal preparation. Present lot contains approx. 10% Buffer Salts. Approx. 0.0015 units/mg Protein

<table>
<thead>
<tr>
<th>Units</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 units</td>
<td>$3.00</td>
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</tbody>
</table>

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(vi)
Partition chromatography

Separation of esterified catecholamine metabolites by partition chromatography in 1,2-dichloroethane: methanol (7:3).
(Appled from Downey, W.K., et al., J. Chromatog. 46 (1970) 120–124. Reproduced by kind permission of the Authors and the Publisher.)

Gel filtration

Gel filtration of triglycerides and fatty acids in chloroform.
(Adapted from Downey, W.K., et al., J. Chromatog. 46 (1970) 120–124. Reproduced by kind permission of the Authors and the Publisher.)

Adsorption chromatography

Separation of oestrogens by adsorption chromatography in distilled water.
(Van Baalen, H., et al., J. Chromatog. 30 (1967) 228–227. Reproduced by kind permission of the Authors and the Publisher.)

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