COOK HUMAN PLATELET LYSATE (Cook HPL™)
Product Codes: PL-NH
Storage Temperature: -20°C

Product Description
Cook HPL™ is a cell culture supplement derived from human platelets.

Precautions and Disclaimer
All platelet donors have been tested for infectious diseases; however precautions should be used in the handling and disposal of Cook HPL™. Not for human or animal use.

Preparation Instructions
For use in cell culture media, supplementation with Cook HPL™ ranges from 2%-10%. Optimal concentration must be determined for each cell line and/or application.

Note: Heparin addition is typically not needed with these products.

Storage/Stability
This product should be stored at -20°C. Upon receiving Cook HPL™, it should be thawed and aliquoted to minimize freeze/thaw cycles.

To thaw Cook HPL™, place container in a 37°C bath, until product has equilibrated with surrounding temperature. Do not thaw on bench top or in refrigerator. Once thawed, product can be used immediately. Short-term storage should be in a 2°C -6°C environment.

Turbidity or flocculence may appear upon thawing or prolonged storage in refrigerated temperature. This is normal and will not affect performance. Filtration is not recommended. Some turbidity/flocculence can be reversed with brief incubation at 37°C.

Quality Control
All samples have been tested to meet the following specifications:

<table>
<thead>
<tr>
<th>Test</th>
<th>Limit</th>
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<tbody>
<tr>
<td>Endotoxin</td>
<td>Less than 10 EU/ml</td>
</tr>
<tr>
<td>Sterility</td>
<td>No growth</td>
</tr>
<tr>
<td>Total Protein</td>
<td>4 to 6 g/dL</td>
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<tr>
<td>Osmolality</td>
<td>260 mmol/kg to 340 mmol/kg</td>
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<tr>
<td>pH</td>
<td>6.8 to 7.8</td>
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