Worldwide presence

Since 2002, over 3 million units of Macopharma Platelets Additive Solution have been distributed worldwide.

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PLATELET ADDITIVE SOLUTION
SSP +
SAFE PLATELETS THROUGH SAVED PLASMA
Platelet Additive Solution (PAS) is often used for the prevention and treatment of bleeding complications in thrombocytopenic patients. Platelets, platelet quality, function, storage stability, morphology, and cell integrity need to be well maintained during processing and storage. Platelet Additive Solution SSP + (PAS III-M/E* generation) was developed to improve storage stability of Buffy-coat and apheresis PCs for up to seven days. The possible ratio is up to 80% SSP + / 20% plasma.

**Clinical benefits:**
- **Reduction plasma volume to decrease adverse events**
- **Compatible with Pathogen Reduction Treatment**
- **Improved bacterial detection performance**

**Benefits:**
- **Effects on Platelet metabolism**
  - Phosphate: stimulates glycolysis to produce more lactic acid, acts as a buffer to prevent fall in pH, and is of importance in maintaining good in vitro characteristics during interruption of agitation.
  - Acetate: acts as a substrate for platelet metabolism; it reduces production of lactate by platelets and by formation of bicarbonate, and it maintains stable pH levels during storage of platelet concentrates.
- **Effects on the function of Platelet membrane**
  - Citrate: prevention of coagulation.
  - Magnesium: prevention of aggregation, reduction of platelet-derived cytokines, reduces activation of platelets.
- **Potassium:** prevention of aggregation, reduces activation of platelets, reduces glycolysis (reduced glucose consumption & lactate production), better maintenance of pH levels.

**SSP+ Formulation in mmol/L**

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Chloride</td>
<td>0.3</td>
</tr>
<tr>
<td>Citrate</td>
<td>10.8</td>
</tr>
<tr>
<td>Acetate</td>
<td>32.5</td>
</tr>
<tr>
<td>Phosphate</td>
<td>28.2</td>
</tr>
<tr>
<td>Potassium</td>
<td>5.0</td>
</tr>
<tr>
<td>Magnesium</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**Effects on Platelet membrane**

- **Citrate:** prevents coagulation.
- **Magnesium:** prevents aggregation, prevents platelet-derived cytokines, reduces activation of platelets.

**Specifications**

- **2 years shelf-life**
- **Polyolefin bag (Non-PVC)**
- **Barcode**
- **2 connections mode available: tubing for sterile connection, luer-lock for easy connection to apheresis kits**
- **Medical Device Class III**
- **Steam sterilised**
- **Available volume:** 250, 280, 300, 500 mL

**Bibliography**

5. Effects on the function and post-transfusion recovery of SSP + platelets is well maintained. Both, Buffy-Coeat and Apheresis derived platelets perform at least as well as platelets stored in 100% plasma.