PURASORB PL 32
Product specification data sheet

Description

PURASORB PL 32 is a GMP grade homopolymer of L-lactide with an inherent viscosity midpoint of 3.2 dl/g. It is supplied in the form of white to light tan granules. PURASORB PL 32 is primarily used for medical device applications and is suitable for all commonly used polymer processing techniques.

Chemical composition

<table>
<thead>
<tr>
<th>Chemical composition</th>
<th>Item</th>
<th>Molecular formula</th>
<th>Chemical name</th>
<th>CAS Registry number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td>Poly(L-lactide)</td>
<td>1820019</td>
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<td>(C_6H_8O_4)_n</td>
<td>33135-50-1</td>
</tr>
</tbody>
</table>

Test | Method | Specification
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Appearance | Visual test | White to light tan granules
Identity | FTIR spectroscopy | Conforms to reference
Inherent viscosity | Viscometry, Chloroform, 25 °C, c = 0.1 g/dl | 2.7 – 3.6 dl/g
Specific rotation | Polarimetry, Chloroform, 20 °C | (-155) – (-160) °
Melting range | DSC, 10 °C/min | 170 – 200 °C
Water | Coulometric titration | max. 0.5 %
Tin | ICP | max. 50 ppm
Residual solvent, total | GC, headspace | max. 0.01 %
Residual solvent, acetone | GC, headspace | max. 5000 ppm
Residual solvent, toluene | GC, headspace | max. 890 ppm
Residual monomer, total | GC | max. 0.1 %
Elemental impurities | USP method 232 | max. 10 ppm
Packaging

PURASORB PL 32 can be supplied in 1 kg packages. Normal packaging consists of an inner bag of clean room grade PE and an outer bag of aluminum coated polyester-PE laminate. The packed product is shipped in an additional bag of PE and in PE containers for added protection.

Storage & Handling

When stored in the original packaging at low temperatures (-15°C), PURASORB PL 32 keeps its initial properties for five years (expiry date).

Stability studies indicate that, when stored in the original packaging at room temperature, PURASORB PL 32 keeps its initial properties for at least one year.

Please refer to our current stability statement for most up to date information on storage stability.

Allow the material to reach room temperature before opening the packaging. After opening the original packaging PURASORB PL 32 is best stored in an inert atmosphere and at low temperatures (-15°C).