

## **PURASORB® PL 18**

**Description** 

Product specification data sheet Rev. No.2 / May 2021

PURASORB PL 18 is a GMP grade homopolymer of L-lactide with an inherent viscosity

midpoint of 1.8 dl/g. It is supplied in the form of white to light tan granules.

 $\hbox{PURASORB PL 18 is primarily used for medical device applications and is suitable for all}\\$ 

commonly used polymer processing techniques.

**Chemical composition** Poly(L-lactide)

**Material numbers** 1001012166/1001012170/1001012187 (1820014)

Molecular formula  $(C_6H_8O_4)_n$ 

**Chemical name** poly[(3S-cis)-3,6-dimethyl-1,4-dioxane-2,5-dione]

CAS Registry number 33135-50-1

| Test                      | Method  | Specification               |
|---------------------------|---|-----------------------------|
| Appearance                | Visual test                                   | White to light tan granules |
| Identity                  | FTIR spectroscopy                             | Conforms to reference       |
| Inherent viscosity        | Viscometry<br>Chloroform, 25 °C, c = 0.1 g/dl | 1.50 – 2.00 dl/g            |
| Specific rotation         | Polarimetry<br>Chloroform, 20 °C              | (-155.0) — (-160.0) °       |
| Melting range             | DSC<br>10 °C/min                              | 170.0 – 200.0 °C            |
| Water                     | Coulometric titration                         | max. 0.50 %                 |
| Tin                       | ICP   | max. 50 ppm                 |
| Residual solvent, total   | GC, headspace                                 | max. 0.010 %                |
| Residual solvent, acetone | GC, headspace                                 | max. 5000 ppm               |
| Residual solvent, toluene | GC, headspace                                 | max. 890 ppm                |
| Residual monomer, total   | GC  | max. 0.10 %                 |
| Elemental impurities      | USP method 232                                | max. 10 ppm                 |

corbion.com Page 1 of 2



## Purasor Puraso

temperatures (-15°C).

corbion.com Page 2 of 2