

PURASORB® PDLG 5002

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Product data sheet

Description

PURASORB PDLG 5002 is a GMP grade copolymer of DL-lactide and Glycolide in a 50/50 molar ratio and with an inherent viscosity midpoint of 0.2 dl/g. It is supplied in the form of white to light tan granules. PURASORB PDLG 5002 is primarily used for drug delivery applications and is suitable for all commonly used formulation techniques.

Specification

Test	Method	Specification
Appearance	visual	white to light tan granules
Identification	FTIR	conforms to reference
DL-lactide content	HNMR	47 - 53 mol%
Glycolide content	HNMR	53 - 47 mol%
Inherent viscosity	CHCl ₃ , 25°C, 1.0 g/dl	0.16 - 0.24 dl/g
Residual monomer	GC	max. 2 wt. %
Acid number	Titration	max. 1 mg KOH/g

For each batch a certificate of analysis is provided, showing the analytical data determined in our quality control laboratory. Additional analytical data can be made available upon request.

Physical-chemical properties

Molecular formula	$(C_6H_8O_4 * C_4H_4O_4)_n$
Chemical name	3,6-dimethyl-1,4-dioxane-2,5-dione, polymer with 1,4-dioxane-2,5-dione
CAS Registry number	26780-50-7

Packaging

PURASORB PDLG 5002 can be supplied in 1 or 5 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 PDLG 5002 keeps its initial properties for at least three years.

Current stability studies indicate that when stored in the original packaging at room temperature PURASORB PDLG 5002 keeps its initial properties for at least one year.

Allow the material to reach room temperature before opening the packaging. After opening the original packaging PURASORB PDLG 5002 is best stored in an inert atmosphere and at low temperatures (-15°C).