

# D-Lactide

- Biomass-based monomer for bio-degradable polymer -

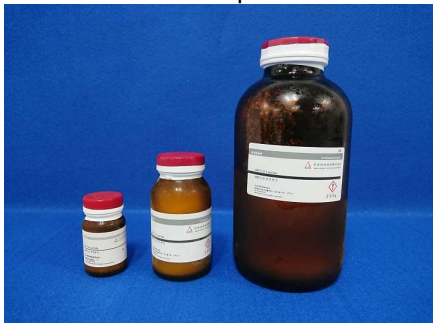
<b>Product</b>	Monomer for bio-degradable polymers from biomass-based d-lactic acid
<b>Application</b>	Polymerization of PLA (poly lactic-acid) and PLGA (poly lactic and glycolic acid)
<b>Feature</b>	High quality polymer-grade d-lactic acid from d-lactic acid of high optical purity

## Background

JMTC supplies high purity D-lactide as a monomer for useful materials like bio-degradable or high Mw polymer. D-lactic acid, raw material for D-lactide has been also supplied by JMTC based on research of AGC for many years to produce organic acid from biomass resources using genetically modified yeast.

## Product overview

High-quality polymer-grade D-lactide from biomass-based raw material.

Chemical name	(3R,6R)-3,6-Dimethyl-1,4-dioxane-2,5-dione	<p>&lt; Product photo &gt;</p> 
CAS No.	13076-17-0	
Molecular formula(MW)	C <sub>6</sub> H <sub>8</sub> O <sub>4</sub> (144.13)	
Melting point	95~102 degC	
Appearance	White powder	

## Features

**High D purity** 97% ee high purity D lactic acid (not L lactic acid)

**Low acid value** Acid value ...lower than 2mmol/kg

**Low moisture** Moisture ...lower than 300ppm

\* These values are measured value, not guaranteed

## Application

Bio-absorbable materials for life science products and DDS (drug delivery systems)  
 Bio-degradable polymer for packaging products  
 e.g. PDLA (poly d-lactic acid)  
 Stereo-complex PLA (compound of PLLA and PDLA)  
 PGDLA (poly d-lactic-co-glycolic acid)

## Contact information