

METABOLIX
where nature performs™



Patent	Title
US 6,709,848	Methods for Isolating Polyhydroxyalkanoates from Plants
US 6,623,749	Polyhydroxyalkanoates for In Vivo Applications
US 6,689,589	Biological Systems for Manufacture of Polyhydroxyalkanoate Polymers Containing 4-hydroxyacids
US 6,610,764	Polyhydroxyalkanoate Compositions Having Controlled Degradation Rates
US 6,828,357	Polyhydroxyalkanoate Compositions Having Controlled Degradation Rates
US 6,878,758	Polyhydroxyalkanoate Compositions Having Controlled Degradation Rates
US 6,867,248	Polyhydroxyalkanoate Compositions Having Controlled Degradation Rates
US 6,429,285	Polymer Compositions Providing Low Residue Levels and Methods of Use Thereof (previously Metalization of Phosphor
US 6,586,658	Modification of Fatty Acid Metabolism in Plants
US 6,605,262	Methods and Apparatus for Production of Amorphous Polymer Suspensions
US 6,576,450	Polyhydroxyalkanoate Production from Polyols
US 6,593,116	Transgenic Microbial Polyhydroxyalkanoate Producers
US 6,828,376	Aqueous Coating Composition Giving Coatings having an Improved Early Hardness and Tack Resistance
US 6,548,569	Medical Devices and Applications of Polyhydroxyalkanoate Polymers
US 6,838,493	Medical Devices and Applications of Polyhydroxyalkanoate Polymers
US 6,867,247	Medical Devices and Applications of Polyhydroxyalkanoate Polymers
US 6,780,911	Low Molecular Weight Polyhydroxyalkanoate Molding Compositions
US 6,753,384	Polyurethanes Obtained from Polyhydroxyalkanoates and Isocyanates

US 6,623,730 Therapeutic Uses of Polymers and Oligomers Comprising Gamma-hydroxybutyrate (Teph 103)

US 6,495,152 Sulfur Containing Polyhydroxyalkanoate Compositions and Method of Production (TEPH 105)

US 6,844,447 Methods of Making Chemical Intermediates from Polyhydroxyalkanoates

US 6,897,338 Methods of Making Chemical Intermediates from Polyhydroxyalkanoates

US 6,759,219 Methods for the Biosynthesis of Polyesters

US 6,620,869 PHA Compositions and Methods for their use in the Production of PHA Films

US 6,770,464 PHA E and PHA C Components of Poly(hydroxy fatty acid) Synthase from *Thiocapsa pfennigii* (also 2 other titles)

US 6,515,205 Production of Polyhydroxyalkanoate

US 6,841,603 Polymer Blends Containing Polyhydroxyalkanoates and Compositions with Good Retention of Elongation

US 6,835,820 Polyhydroxyalkanoate Biosynthesis Associated Proteins and Coding Region in *Bacillus Megaterium*

US 6,368,836 Method of Decolorizing or Deodorizing Polyhydroxyalkanoates

US 6,380,244 Nutritional and Therapeutic Uses of 3-hydroxyalkanoate Oligomers

US 6,340,580 Methods for Purifying Polyhydroxyalkanoates

US 6,329,183 Polyhydroxyalkanoate Production from Polyols

US 6,323,276 Methods and Apparatus for the Production of Amorphous Polymer Suspensions

US 6,323,010 Polyhydroxyalkanoate Biopolymer Compositions

US 6,316,262 Biological Systems for Manufacture of Polyhydroxyalkanoates Polymers Containing 4-hydroxyacids

US 6,245,537 Removing Endotoxin with an Oxidizing Agent from Polyhydroxyalkanoates Produced by Fermentation

US 6,228,934 Methods and Apparatus for the Production of Amorphous Polymer Suspensions

US 6,214,920 Polyhydroxyalkanoate Molding Compositions

US 6,207,217 Animal Nutrition Compositions

US 6,083,729 Methods for Isolating Polyhydroxyalkanoates from Plants

US 6,071,998 Polyhydroxyalkanoate Molding Compositions

US 5,891,642 Method of Detecting PHB in Human Blood Serum
US 5,880,269 Antibodies for PHB
US 5,811,272 Method for Controlling Molecular Weight of Polyhydroxyalkanoates
US 5,798,235 Gene Encoding Bacterial Acetoacetyl-COA Reductase
US 5,663,063 Method for Producing Polyester Biopolymers
US 5,661,026 Gene Encoding Bacterial Beta-Ketothiolase
US 5,650,330 Method of Using Polyhydroxybutyrate and Polyphosphate Membranes with Channels
US 5,625,030 Methods for Synthesizing Oligomers Containing Hydroxy Acid Units
US 5,585,249 Polyhydroxybutyrate and Polyphosphate Membranes with Channels
US 5,534,432 Polyhydroxybutyrate Polymerase
US 5,512,669 Gene Encoding Bacterial Acetoacetyl-COA Reductase
US 5,480,794 Overproduction and Purification of Soluble PHA Synthase
US 5,266,422 Branched Polyhydroxyalkanoate Polymer Salt Electrolytic Compositions and Method of Preparation
US 5,250,430 Polyhydroxyalkanoate Polymerase
US 5,245,023 Method for Producing Novel Polyester Biopolymers
US 5,229,279 Method for Producing Novel Polyester Biopolymers
BIOPOL™ PATENTS (Acquired from Monsanto)
US 6,248,862 Hydroxy-terminated Polyhydroxyalkanoates
US 6,228,623 Polyhydroxyalkanoates of Narrow Molecular Weight Distribution Prepared in Transgenic Plants
US 6,204,341 Hydroxy-terminated Polyhydroxyalkanoates (DIV)
US 6,201,083 Modified Polyhydroxyalkanoates for Production of Coatings and Films
US 6,191,203 Polymer Blends Containing Polyhydroxyalkanoates and Compositions with Good Retention of Elongation
US 6,175,061 Production of Polyhydroxyalkanoate in Plants
US 6,156,852 Hydroxy-terminated Polyhydroxyalkanoates (CIP)
US 6,127,512 Plasticized Polyhydroxyalkanoate Compositions and Methods for Their Use in the Production of Shaped Polymeric Articles
US 6,111,006 Process for Preparing Films and Coatings

US 6,096,810 Modified Polyhydroxyalkanoates for Production of Coatings and Films
US 6,091,002 Polyhydroxyalkanoates of Narrow Molecular Weight Distribution Prepared in Transgenic Plants
US 6,087,471 High Temperature PHA Extraction using PHA-poor Solvents
US 6,080,562 HV/HB Copolymer Production
US 6,043,063 Methods of PHA Extraction and Recovery using Non-Halogenated Solvents
US 6,025,028 Polyhydroxyalkanoate Coatings
US 6,022,729 Improved Production of Polyhydroxyalkanoate
US 6,011,144 PHAE and PHA Components of Poly(hydroxy fatty acid) Synthase form *Thiocapsa pfennigii* (Has 2 other titles)
US 6,005,066 Aliphatic Polyester Composition
US 5,994,478 Hydroxy-terminated Polyhydroxyalkanoates
US 5,977,291 Copolyesters
US 5,977,250 Latex of Polyhydroxyalkanoate
US 5,973,100 Nucleating Agents for Polyhydroxyalkanoates and Other Thermoplastic Polyesters and Methods for their Production and Use
US 5,952,460 Production of Polymers of Hydroxyalkanoic Acids
US 5,894,062 Process for the Recovery of Polyhydroxyalkanoic Acid
US 5,891,936 Production of a Polymer Composition
US 5,874,040 Processing of Polyesters
US 5,871,980 Process for the Microbiological Production of PHA Polymers
US 5,849,894 *Rhodospirillum Rubrum* Poly-B-Hydroxyalkanoate Synthase
US 5,798,440 Increasing the Particls Size of Polymers
US 5,789,536 Process of Polyesters
US 5,760,170 Polyester Composition
US 5,753,782 Polyester Composition
US 5,750,848 DNA Sequence Useful for Production of Polyhydroxyalkanoates
US 5,711,842 Adhesion Process
US 5,693,389 Polyester Composition
US 5,691,174 Production of Plastics Materials from Micrororganisms

US 5,646,217 Polymer Composition Containing Polyhydroxyalkanoate and Metal Compound

US 5,627,276 Peroxide Degradation of DNA for Viscosity Reduction (sp is correct)

US 5,622,847 Process for the Separation of Solid Materials from Microorganisms

US 5,599,891 Polymer Composition

US 5,578,382 Polyhydroxyalkanoates and Film formation Therefrom

US 5,560,962 Structure Having Controlled Water Resistance

US 5,550,173 Polyester Composition

US 5,534,616 Polyhydroxyalkanoates and Film formation Therefrom

US 5,525,658 Polymer Compositions and Processes Produced from Hydroxyalkanoic Acid

US 5,516,825 Biodegradable Polymer Compositions

US 5,502,273 Production of Polyhydroxyalkanoates in Plants

US 5,478,892 Polymer Blends and Compatibilizers

US 5,387,513 Microbial Production/Polyesters Having C8 and / C10 Monomer Repeat Units

US 5,364,778 Copolymer Production

US 5,296,362 Microbial Production/Polyesters Having C8 and / C10 Monomer Repeat Units

US 5,264,546 Copolymer Production

US 5,061,743 3-hydroxybutyrate Polymer Composition

US 4,910,145 Separation Process for a 3-hydroxybutyrate Polymer

US 4,603,070 Non-woven Fibrous Materials

US 4,477,654 3-hydroxybutyrate Polymers