







Are you a medical an industrialist, manufacturer in orthopaedics, or another

Rescoll can help you solve your issues or meet your needs for mechanical characterization in a physiological environment, substitution materials, fatigue tests on medical devices, or tests according to European pharmacopeia.





Chemical and Physicochemical Analysis

Elementary Analysis – Total Mineral Content Thermo-mechanical behavior of materials Dosage of organic pollutants (lubricants), VOC Viscosity, gel time Molecular weight measurement FTIR analysis Density Porosity



Residual monomer content
Residual solvent content – Moisture Content

Control on fluids

Heavy metals content

Surface & coating characterization

FTIR spectroscopy • NMR • Optical/UV microscopy • SEM
Gas • HPLC • SEC Chromatography • ICP-OES • GC-MS • GC-FID
DSC • MDSC • TGA • TMA • DMA
Nano-indentation • nano-scratch
Based on NF, ISO, ASTM standards



Product Stability

Accelerated ageing

- Temperature and humidity controlled oven
- Thermal cycling/Moisture cycling
- UV A and B ageing
- Corrosion resistance
- Immersion

Tensile testing on blister and bag Permeability on blister and bag

device manufacturer, ocular, dental, textiles implant/scaffold fields related field?

Mechanical in controlled temperature testing and/or physiological serum bath



- Tensile, compression, flexural
- · Shear, shock
- Endurance, creep, relaxation

On products or devices

Spine, knee, hip, dental...

Dynamometer 10N to 250 kN

5 mechanical endurance instruments (Bose, MTS, Metravib) Biaxial optical extensiometer

Expertise

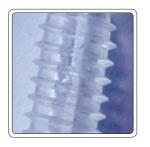
Several Rescoll staff members are certified experts for the Bordeaux Courts (Commerce and First Instance) as well as OSEO (the French Innovation Agency), and technical experts for the European Commision in the field of materials and chemical products.



Pollution: Analyze and compare materials

Process

Conformity: Validate product purity





As a major actor in several National and European multipartner projects, Rescoll's team is developing:

Non-resorbable composite and polymer implants A new generation of biomimetic resorbable implants Biocompatible adhesive assemblies Bioactive coatings enabling substance release Risk Analysis & Regulatory Issues

• Formulation • Scale up • Reverse engineering • Surface treatment (sandblasting, atmospheric plasma) • Litterature review



design: www.siksik.fr

Rescoll's competitive advantages:

- Highly qualified staff
 (doctors, engineers and senior technicians specialized in the characterization and study of polymer materials) – more than 10 years of scientific and technical expertise
- High-Tech, regularly maintained test means based on international standards
- Highly responsive (results generally delivered within a week)
- Fast adaptation/development of test methods



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AQUITAINE

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References

Medacta

ConMed

Septodont

Noraker

Statice Santé

Tekka

BBraun

Creaspine

Carmat

Ceva

Cardial

Cousin Biotech

Acteon

Tecknimed

Ellipse

Pierre Fabre Médicaments

Galenix Développement

L'Oréal Recherche

Spine Next

Laboratoires Santé Beauté

Textile Hi-Tec

Implanet

ART

S14 Implants

BIOSPINE Implants



Certified ISO9001

Accreditations:

ISO17025 (COFRAC Test Accreditation) CIR (Crédit Impôt Recherche) Court-appointed expert by first instance and commerce court of Bordeaux







