

Lotus (root)

Name

Name : Lotus (root)

French name : Lotus (racine)

Source

Organe : root

Sample Origin : Dr. M. Wada (University of Tokyo, Japan)

Morphology

Size <10 µm & 10-50 µm & 50-100 µm

Shape : elongated & ovoid

Structure

Allomorph : C

Fraction of allomorph A : 37%

Fraction of allomorph B : 63%

Crystallinity index : 46%

Composition

Fraction of amylose : 22%

Fraction of amylopectin : 78%

Waxy : no

Thermal properties

Melting temperature : 62.7CÂ°

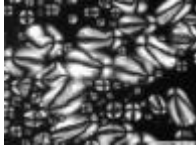
Melting interval : 25.4CÂ°

Starch presentation

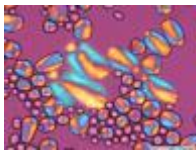
Melting enthalpy : -15.4J/g

References

Image(s)



Optical micrograph (OM)



Optical micrograph (OM)



Sample Source



Sample Source

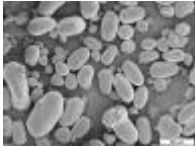


Sample Source



Starch presentation

Scanning electron microscopy (SEM) image



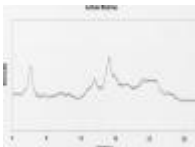
Scanning electron microscopy (SEM) image



Scanning electron microscopy (SEM) image



X-ray diffraction (XRD) pattern



X-ray diffraction (XRD) profile