Table 3.1 Properties of the Amylose and Amylopectin Components of Starcha

Property	Amylose	Amylopectin
General structure Color with iodine λ_{max} of iodine complex Iodine affinity Average chain length (glucosyl units) Degree of polymerization (glucosyl units) Solubility in water Stability in aqueous solution Conversion to maltose by crystalline β -amylase	Essentially linear Dark blue ~650 nm 19-20% 100-10 000 100-10 000 Variable Retrogrades ~70%	Branched Purple ~540 nm <1% 20-30 10 000-100 000 Soluble Stable ~55%
^a Adapted from Marshall, ⁴¹⁶ Williams, ⁶⁶ and Radley ⁴¹⁷		