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3.6 Quality of Hyaluronan Commercial Products of Animal and Bacterial OriginReferences; Chapter 4 Molecular and Supramolecular Structure of Hyaluronic Acid; 4.1 Primary Structure of Hyaluronic Acid; 4.2 Structure of Hyaluronan in Solution; 4.3 Rheological Properties of Hyaluronic Acid; References; Chapter 5 Chemical Modifications, Solid Phase, Radio-Chemical and Enzymatic Transformations of Hyaluronic Acid; 5.1 Main Characteristics of Cross-Linked Hydrogels; 5.2 Methods of Hyaluronic Acid Cross-Linking; 5.2.1 Cross-Linking with Carbodiimides; 5.2.2 Cross-Linking with Aldehydes
5.2.3 Cross-Linking with Divinylsulfone

Sommario/riassunto

Hyaluronic acid is an essential part of connective, epithelialand neural tissues, and contributes to cell proliferation andmigration. It is used as a stimulating agent for collagen synthesisand is a common ingredient in skin-care products, a multi-billiondollar industry, as it is believed to be a key factor in fightingthe aging process. Hyaluronic Acid: Production, Properties, Application inBiology and Medicine consists of six chapters discussing thevarious issues of hyaluronic acid research. In Chapter 1, ahistorical analysis recounts the discovery and milestones of theresearch leading to t