



## Single Dimension, Multiple Development Thin-Layer Chromatography of Sugars for Densitometric Quantification (Classic Reprint) (Paperback)

By Neil E Martin

Forgotten Books, 2018. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from Single Dimension, Multiple Development Thin-Layer Chromatography of Sugars for Densitometric Quantification Partitioning of simple sugars within the pentose and a methylated derivative, rhamnose, of the hexose group was accomplished with ethyl acetate, pyridine, and wat (solvent 0) on cellulose media. Within this group of sugars, rhamnose, ribose, xylos and fructose were satisfactorily separated from each other, with the entire group occupying more than the upper half of the chromatogram. Fructose, glucose, sucrose, and raffinose separated well, but with not enough distance between sugars to allow identification of other hexoses and disaccharides. When using the same solvent on silica gel, a greater separation between rhamnose and ribose and between xylose and fructose occurred, but ribose and xylose were contiguous. Chloroform, acetic acid, and water (solvent B) in combination with cellulose provided satisfactory separations between sugars of a mixture of hexoses and disaccharides. Glucose, mannose, and sorbose were separated from each other and from a spot containing arabinose and fructose. Separations between constituents having positions lower than glucose on the chromatograms were found to be satisfactory in the solvent D-cellulose media combination....

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