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(54) **Title:** IMPROVED ANALYTICAL METHODS FOR ANALYZING AND DETERMINING IMPURITIES IN DIANHYDROGALACTITOL

(57) **Abstract:** An improved analytical method for analysis of dianhydrogalactitol preparations provides a method for determining the purity of dianhydrogalactitol and detecting impurities in preparations of dianhydrogalactitol, as well as identifying any such impurities. The method employs high performance liquid chromatography (HPLC), in particular, HPLC with refractive index (RI) detection; the HPLC can be followed by tandem mass spectroscopy. The method can further comprise the step of performing preparative HPLC collection of at least one specific substance peak present in a preparation of dianhydrogalactitol.



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