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(54) Title: METHOD FOR GENERATING CIRCULAR DNA USING HETERODUPLEX THERMOSTABLE LIGATION ASSEMBLY OF PRECURSORS PRODUCED BY ROLLING CIRCLE AMPLIFICATION

(57) Abstract: Current minicircle production methods are slow, expensive, and difficult to perform under GMP conditions because, in most cases, the product is derived from bacteria. In contrast, HTLA- and CHTLA-based synthetic circular supercoiled DNA production can be done completely in a single container, for example, using precursor DNA fragments generated using rolling circle amplification.