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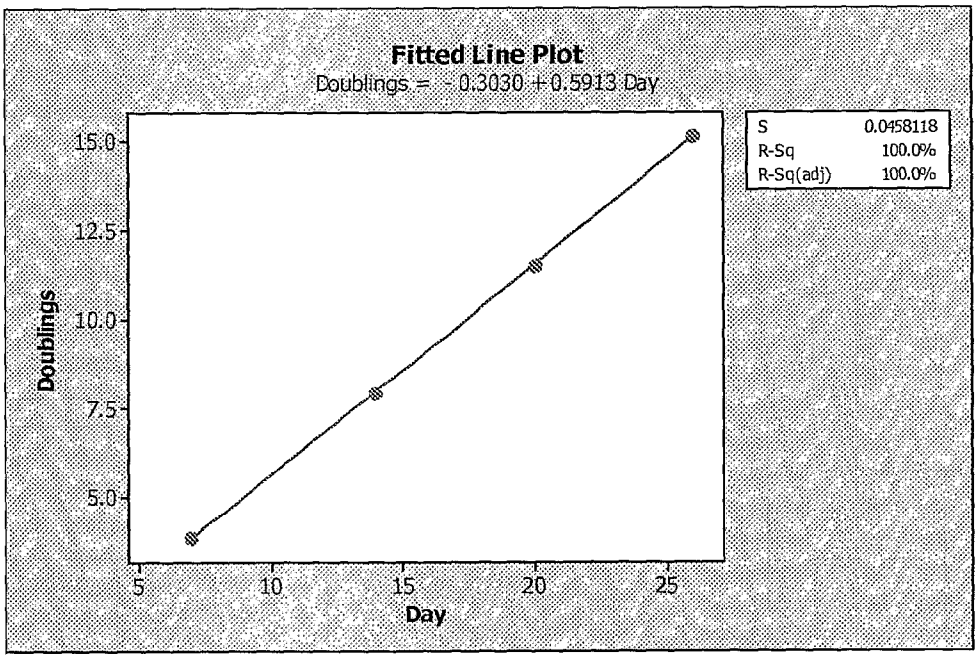
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(54) **Title:** IN VITRO EXPANSION OF POSTPARTUM DERIVED CELLS IN ROLLER BOTTLES



(57) **Abstract:** Methods for the maximizing parameter of the in vitro growth and expansion of mammalian cells, specifically postpartum-derived cells in containers such as roller bottles is described. Methods of optimizing growth rate and cell yield in such culture systems are provided. The methods are particularly adapted for human postpartum-derived cells, such as umbilicus-derived cells.

WO 2007/073552 A1