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(54) Title: METHODS FOR PERFUSION AND PLATING OF PRIMARY HEPATOCYTES AND A MEDIUM THEREFORE

(57) Abstract: The present invention provides methods for culturing primary hepatocytes with improved long term function and improved viability, by plating the hepatocytes in the presence of an anti-oxidants) as well as an agent(s) which is a functional inhibitor of enzymes that generate reactive oxygen and reactive nitrogen species. One preferred embodiment provides a combination of 2-oxo-thizolidine and tocopherol succinate. Another preferred embodiment provides a combination of N^G-methylarginine and mannitol.