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(54) Title: BIOREACTOR FOR RNA IN VITRO TRANSCRIPTION

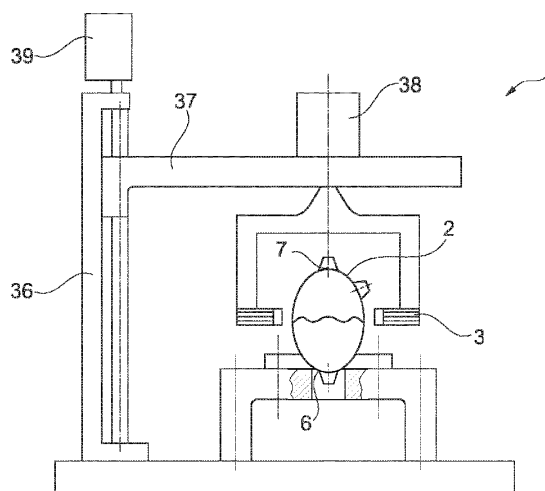


Fig. 1

(57) Abstract: The present invention relates to a bioreactor for RNA in vitro transcription, a method for RNA in vitro transcription, a module for transcribing DNA into RNA and an automated apparatus for RNA manufacturing. Further, the use of a bioreactor for RNA in vitro transcription as described herein is part of the present invention. The present invention relates to an RNA in vitro transcription reactor designed to be operable in an automated manner under GMP-compliant conditions. In particular, said RNA in vitro transcription reactor allows repetitive use of DNA template for various RNA in vitro transcription reactions. Further, the invention relates to an apparatus for RNA manufacturing comprising (a) a module for template DNA synthesis, (b) a module for transcribing DNA into RNA comprising said RNA in vitro transcription reactor, and, optionally, (c) a module for RNA formulation.

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