

TITLE: APPARATUS AND METHOD FOR ADAPTIVELY ANALYZING ONE OR
MORE PHYSICOCHEMICAL PROPERTIES

ABSTRACT

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According to embodiments of the present invention, an apparatus for adaptively
analyzing one or more physicochemical properties is provided. The apparatus includes a
sampling chamber configured to receive a liquid sample and to allow the sample to be
separated to obtain a supernatant; a dosing pump arranged between the sampling chamber
10 and a measuring chamber, wherein the dosing pump is configured to draw at least portion
of the supernatant from the sampling chamber into the measuring chamber; one or more
sensors configured to measure one or more parameters of the at least portion of the
supernatant in the measuring chamber; and a processing unit configured to control receipt
of the liquid sample in the sampling chamber, and activation and deactivation of the
15 dosing pump; and to receive data for processing. According to further embodiments, a
method for adaptively analyzing one or more physicochemical properties is also
provided.

FIG. 2