

NEMIX SYRINGE

Stirring system for syringe pumps



Pulsation free dosing of homogenous suspensions in nanoliter scale

Requirement

In certain applications the controlled dosage of cell- and particle suspensions into microfluidic devices is required. For other applications a constant concentration of a dosed mixture over a certain period of time is important.

Solution

There is a solution for both requirements - the neMIX stirring systems. They are an add-on for the high precision syringe pump system neMESYS. Inside the stirring systems the suspensions are mixed cautiously to homogeneity. The coupled neMESYS syringe pumps enable the precise dosage of the mixed fluids in sub microliter scale. cetoni offers two different solutions: the neMIX Syringe Stirrer and the neMIX Stirring Bottle.

neMIX Syringe Stirrer

The syringe stirrer consists of a stirring element with a permanent magnet fixed on its tip. This stirring element is inside of a common high quality syringe. A fixture that is mounted on the front part of the syringe contains a rotating permanent magnet. This rotating magnet rotates the stirring element contact-free and the suspension inside the syringe is mixed cautiously.

The stirring element contains an outlet. The coupled syringe pump continuously pumps the suspension through this outlet into the connected microfluidic components.

Your benefits at a glance

- pulsation free dosage of homogenous suspensions
- cautious, stress free stirring of cell suspensions
- various syringe sizes - 2.5 ml and 5 ml
- adjustable stirring speeds
- dosing of beads and particle suspensions possible
- autoclavable



neMIX Syringe Stirrer with actuation module connected to neMESYS Dosing Module

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cetoni GmbH
Am Wiesenring 6
07554 Korbussen
Germany

Phone: + 49 (0) 36602 338-0
Fax: + 49 (0) 36602 338-11
Mail: info@cetoni.de
Web: www.cetoni.de



NEMIX BOTTLE

Stirring bottle for syringe pumps

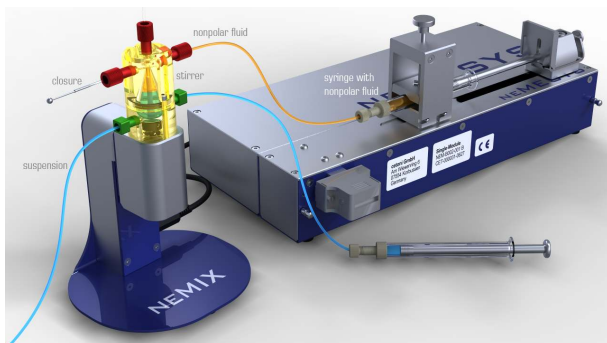


Cautious, stress free stirring and dosage of cell suspensions

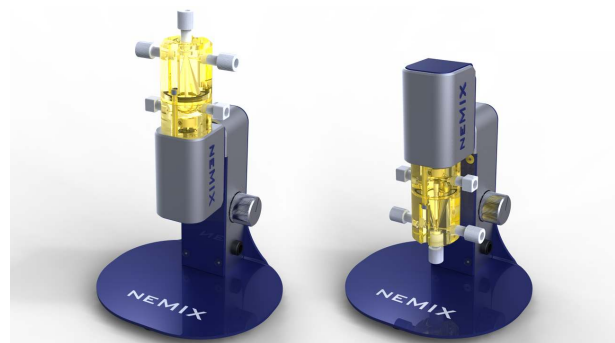
neMIX Stirring Bottle

For the first time there is a solution available for the highly precise dosage of suspensions and watery mixtures - the neMIX Stirring Bottle. During the whole dosing process the suspensions inside the stirring bottle are mixed cautiously to homogeneity. This ensures constant concentrations of dosed mixtures over long periods of time.

The stirring process itself is very cautious with low shear forces and thus even dosage of cell suspensions is possible. So this is the first device that prevents sedimentation effective throughout the whole dosing process and that is usable with any common syringe pump.



neMIX Stirring Bottle connected to neMESYS Syringe Pump



Rotatable - carrier medium can be lighter or heavier than suspension

Your benefits at a glance

- pulsation free dosage of watery mixtures
- cautious, stress free stirring and dosage of cell suspensions
- dosage of beads possible
- stirring of particle suspensions to prevent sedimentation
- stirring speeds infinitely variable
- easy assembly and disassembly
- parts in contact with fluid are autoclavable
- flow rates in sub microlitre scale with neMESYS syringe pumps
- easy to vent
- reproducible supply of biological and chemical process with suspensions

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cetoni GmbH
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07554 Korbussen
Germany

Phone: + 49 (0) 36602 338-0
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