

## DATASHEET

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### FluMaXx

#### FluMaXx

Oxygen scavenger for single molecule imaging  
Cat. #: 5161-01

For Laboratory Use Only.  
Not for Use in Diagnostic Processes.

#### Kit Content

5x 250µl FluMaXx<sup>1</sup> (2x stock, lyophilized)  
1x 500µl ATP/DTT<sup>2</sup> Mix (10x stock, lyophilized)  
1x 1.5ml Methylcellulose stock solution (0.5% in Milli-Q™ water)

<sup>1</sup> Contains: Glucose oxidase, catalase, imidazole pH 7.4, KCl, EGTA, MgCl<sub>2</sub>, glucose, cryoprotectants (proprietary formula);

<sup>2</sup> Contains: ATP, DTT;

#### Product Documentation

FluMaXx is an fluorescence oxygen scavenging system to improve the stability of fluorescent dyes. The efficiency of FluMaXx is illustrated by its ability to prevent e.g. filamentous actin from fragmentation, which are extremely prone to photon induced chemical damage.

FluMaXx contains all vital components for high resolution monitoring of assays using cytoskeletal polymers. This optimized catalase/glucose oxidase enzyme system, protects the natural fluorescence intensity of the dye and thus maximizes the fluorescence intensity. A novel optimization of FluMaXx is based on the stabilization of the catalase enzyme. Catalase normally cannot be frozen in solution without a major loss of activity and furthermore is inactivated by higher concentrations of reducing agents.

Our proprietary formula of the FluMaXx permits refreezing after reconstitution without loss of activity. The buffer contains 5mM DTT, showing a beneficial effect on performance without measurable damage of the enzyme system.

To guarantee the high quality of FluMaXx, all critical components are supplied as a lyophilized powder.

#### Preparation of FluMaXx

##### For flow chamber assays

Add 250µl of ultrapure water to the tube containing FluMaXx and mix with 200µl of

1 OF 2

*For product inquiries please contact:*

cusserv@hypermol.com  
Fon: +49 (0)521 9876228  
Fax: +49 (0)521 9876231  
www.hypermol.com

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methylcellulose (MC). After addition of the MC-solution to FluMaXx (2x stock), the mixture is vortexed and centrifuged for 1min, 5000rpm.

The ATP/DTT Mix is added freshly before mixing with the sample solution to be observed (e.g. 45µl FluMaXx/MC mix + 5µl ATP/DTT).

It is recommended to shortly degas FluMaXx before use to remove trapped air from the viscous solution.

#### As antifading buffer system

Add 450µl of ultrapure water to the tube containing FluMaXx. The ATP/DTT Mix is added before use (e.g. 45µl FluMaXx/MC mix + 5µl ATP/DTT).

#### Storage and Stability

Freshly prepared FluMaXx solution should be used within 1 day, since the activity rapidly decreases.

Aliquots may be prepared for storage:

#### Example

Prepare five aliquots of 90µl each. Use one aliquot immediately and freeze the remaining four aliquots at -20°C! These aliquots can be used within the next 2 weeks.

DO NOT REFREEZE.

2 OF 2

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