

DMSO Reductase kit



General description

This kit provides the enzyme and reagents necessary for the enzyme-linked determination of dimethyl sulfoxide (DMSO) in aqueous solution, by gas chromatography¹. The enzyme-linked method provides highly specific conversion of DMSO to DMS, which is trapped for subsequent measurement by GC. This method offers high levels of sensitivity, accuracy, and precision.

All reagents are provided as ready-to-use concentrates.

Specifications

No. of samples:	number of samples is dependent on sample concentration, and sensitivity of the detection system. For the 50 unit kit, up to 2000 ml of aqueous sample can be tested, e.g. 20 x 100 ml samples, 100 x 20 ml samples, 2000 x 1 ml samples [†]
Storage:	-20 °C
Shelf-life:	3 months (avoid repeated freeze-thawing of enzyme)
Limit of detection:	0.1 nM DMSO
Range ² :	0.1 – 3000 nM DMSO
Precision:	2 % (CV)

Kit Contents

	50 unit kit:
DMSO Reductase:	50 µl, ~ 1000 units /ml ³
EDTA:	2 x 5 ml, 10x solution
FMN:	2 x 5 ml, 10x solution
Instruction pamphlet	

Pricing

50 unit kit:	£200
250 unit kit:	£700

Contact

For further information, contact Dr. Charlie Bavington;
Charlie@glycomar.com, +44 (0)1631 559370

¹ Hatton, A.D., et al., *Determination of dimethyl sulfoxide in aqueous solution by an enzyme-linked method*. Analytical Chemistry, 1994. **66**(22): p. 4093-4096

² Figures quoted based on detection with Varian 3800, FPD Gas Chromatograph for 1 – 100 ml volumes.

³ 1 unit will cause the reduction of 1.0 mmole of methyl viologen per minute at 25 °C