

L-P-G Reagent Kit

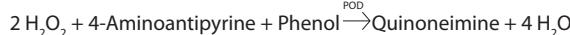
for the 600 and ISCUS^{flex}
Microdialysis Analyzers

GLUCOSE

Colorimetric method for the quantitative determination of Glucose in Microdialysates.

Measuring principle

Glucose is enzymatically oxidised by glucose oxidase (GOD). The hydrogen peroxide formed reacts with phenol and 4-amino-antipyrine. This reaction is catalyzed by peroxidase (POD) and yields the red-violet colored quinoneimine. The rate of formation is measured photometrically at 530 nm and is proportional to the glucose concentration.



Linear range: 0.1 - 25 mmol/L

	Component	Concentration in test solution
Glucose reagent	4-Aminoantipyrine	0.77 mmol/L
	Ascorbate oxidase	>3 kU/L
	Glucose oxidase	>1.5 kU/L
	Peroxidase	>1.5 kU/L
Glucose buffer	Phosphate buffer, pH 7.0	0.1 mol/L
	Phenol	11 mmol/L
	Sodium azide	0.4 g/L

Sample material	WARNING:
Microdialysates	Do not pipette by mouth. Exercise the normal precautions required for handling laboratory reagents.
For in vitro use only	The buffer contains Sodium Azide. Avoid ingestion or contact with skin or mucous membranes. In case of skin contact, flush affected area with copious amounts of water. In case of contact with eyes or if ingested, seek immediate medical attention.
Symbol declaration:	 Last day of use
	Lot number
	Storage temperature
	The product meets EU directive for IVD (98/79/EC)
References:	1. Barhem and P. Trinder, Analyst 97(1972)142

L-P-G Reagent Kit

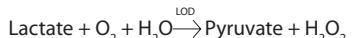
for the 600 and ISCUS^{flex}
Microdialysis Analyzers

LACTATE

Colorimetric method for the quantitative determination of Lactate in Microdialysates.

Measuring principle

Lactate is enzymatically oxidised by lactate oxidase. The hydrogen peroxide formed reacts with 4-chlorophenol and 4-amino-antipyrine. This reaction is catalyzed by peroxidase (POD) and yields the red-violet colored quinoneimine. The rate of formation is measured photometrically at 530 nm and is proportional to the lactate concentration.



Linear range: 0.1 - 12 mmol/L

	Component	Concentration in test solution
Lactate reagent	4-Aminoantipyrine	0.4 mmol/L
	Lactate oxidase	>0.5 kU/L
Lactate buffer	Peroxidase	>0.5 kU/L
	Ascorbate oxidase	>12.0 kU/L
Lactate buffer	PIPES buffer, pH 6.8	100 mmol/L
	4-Chlorophenol	5.4 mmol/L
	Sodium oxalate	7.5 mmol/L
	EDTA-disodium salt	5 mmol/L
	Sodium azide	0.3 g/L

Sample material	WARNING:
Microdialysates	Do not pipette by mouth. Exercise the normal precautions required for handling laboratory reagents.
For in vitro use only	The buffer contains Sodium Azide. Avoid ingestion or contact with skin or mucous membranes. In case of skin contact, flush affected area with copious amounts of water. In case of contact with eyes or if ingested, seek immediate medical attention.
Symbol declaration:	 Last day of use
	Lot number
	Storage temperature
	The product meets EU directive for IVD (98/79/EC)
References:	1.N.Shimoto et al. Clin Chem 35(1989)1992 2.H.F.Kühne et al., J.Clin Chem BioChem 15 (1977)171 2.T.O.Kleine et al., Dtsch Med Wschr 104 (1979) 553

L-P-G Reagent Kit

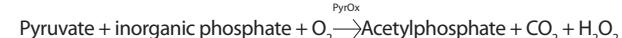
for the 600 and ISCUS^{flex}
Microdialysis Analyzers

PYRUVATE

Colorimetric method for the quantitative determination of Pyruvate in Microdialysates.

Measuring principle

Pyruvate is enzymatically oxidized by pyruvate oxidase (PyroOx). The hydrogen peroxide formed reacts with N-ethyl-N-(2-hydroxy-3-sulfopropyl)-m-tolidine and 4-amino-antipyrine. This reaction is catalyzed by peroxidase (POD) and yields the red-violet colored quinonedii-imine. The rate of formation is measured photometrically at 530 nm and is proportional to the pyruvate concentration.



Linear range: 2 - 300 (10 - 1500) μmol/L

	Component	Concentration in test solution
Pyruvate reagent	4-Aminoantipyrine	0.3 mmol/L
	Tiamine pyrophosphate	0.2 mmol/L
Pyruvate buffer	FAD	10 μmol/L
	Pyruvate Oxidase	>0.2 kU/L
Pyruvate buffer	Peroxidase	>0.8 kU/L
	Ascorbate Oxidase	>10 kU/L
Pyruvate buffer	Citrate buffer, pH 6.1	100 mmol/L
	Potassium dihydrogenphosphate	10 mmol/L
	MgCl ₂	10 mmol/L
	TOOS	1.5 mmol/L
	Sodium azide	0.3 g/L

Sample material	WARNING:
Microdialysates	Do not pipette by mouth. Exercise the normal precautions required for handling laboratory reagents.
For in vitro use only	The buffer contains Sodium Azide. Avoid ingestion or contact with skin or mucous membranes. In case of skin contact, flush affected area with copious amounts of water. In case of contact with eyes or if ingested, seek immediate medical attention.
Symbol declaration:	 Last day of use
	Lot number
	Storage temperature
	The product meets EU directive for IVD (98/79/EC)
References:	1. B. Sedewitz, et al., J. Bacteriol., 160 (1984) 273-278 2. M. Nawata, et al., Anal Biochem, 190 (1990) 84-87 3. H. Araki and M. Yamada, in: H. U. Bergmeyer (Editor), Methods of Enzymatic Analysis, 3rd ed., Vol 6, Verlag Chemie, Weinheim, 1984

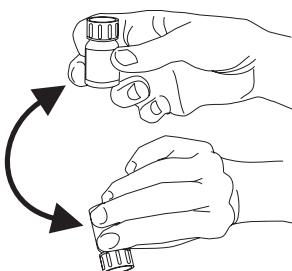
Content

REF No 801 0361

1. Reagent: One bottle lyophilized reagent each for glucose, lactate and pyruvate.
2. Buffer: One bottle à 6 mL each for glucose, lactate and pyruvate.
3. Calibrator: One bottle à 6 mL
Reagents are sufficient for 350 determinations.
Reagents and calibrator are stable up to expiry date
when stored at +2 to +8 °C

Preparation and stability of solution

1. Unscrew the cap with the membrane from the reagent bottle. Remove and discard the rubber stopper.
2. Transfer the contents of the buffer bottle to the reagent bottle.
3. Fasten the cap with the membrane on the reagent bottle, without Rubber stopper.
4. Dissolve contents completely by gently turning the bottle upside-down at least ten times. Let the reagent stand and equilibrate in room temperature for at least 30 minutes prior to use.
Reconstituted reagent is stable for five days in the instrument.



■ Dissolve contents completely by gently turning the bottle upside-down at least ten times.

Manufactured by:
M Dialysis AB
Hammarby Fabriksväg 43
SE-120 30 • Stockholm • Sweden
Tel: +46-8-470 10 20
Fax: +46-8-470 10 55
E-mail: info@mdialysis.com

USA office:
73 Princeton Street
N. Chelmsford • MA 01863 • USA
Tel: (800) 440-4980, (978) 251-1940
Fax: (978) 251-1960
E-mail: usa@mdialysis.com