



MultiTRACE – 4-Channel Online Monitoring

MultiTRACE is a flexible alternative to the TRACE C2 Control for parallel monitoring of up to 4 bioreactors. MultiTRACE is therefore mainly used in parallel experiments for media optimization and cell cultivation.

| Part | Description | Part no. |
|-----------------------------------|---|-------------|
| MultiTRACE | Scope of delivery: Device MultiTRACE, power adapter and power plug, cross-over Ethernet cable, PC-Software (trace_mon) and user manual | 143.000.000 |
| Spare parts MultiTRACE | | |
| Stand | Table tripod | 730.000.010 |
| Stand clamp | To fix the device at the stand | 730.000.000 |
| Knurled screw | Knurled screw for measurement cell (replacement) | 137.000.031 |
| Power adapter | Power supply | 200.005.050 |
| Power plug | Power cable for US, UK or EU | 200.005.051 |
| Consumables MultiTRACE | | |
| Tubing sets | Dialysis (Glucose/Lactate) | 130.200.200 |
| | Dialysis (Glucose/Lactate/Low) | 130.200.203 |
| | Filtration (Glucose/Lactate) | 130.200.201 |
| | Filtration (Glucose/Lactate/cellulase resistant) | 130.200.202 |
| | Dialysis (Ethanol/Methanol) | 130.200.220 |
| | Filtration (Ethanol/Methanol) | 130.200.221 |
| Enzyme reactor | Application Ethanol/Methanol | 811.100.120 |
| Transport buffer, concentrated | 20x, for cell cultivations (Glucose/Lactate), content: 0.5 liter | 850.300.135 |
| | 5x, for microbial cultivations (Glucose/Lactate), content: 1 liter | 850.300.102 |
| | 5x, Application Ethanol/Methanol, content: 1 liter | 850.300.613 |

Order list MultiTRACE
(valid from 01 March 2018)



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| Consumables MultiTRACE | | | |
|--|--|-------------|--|
| Part | Description | Part no. | |
| Calibration standard Content: 0.5 liter | 0.1 g/l Glucose, 0.05 g/l Lactate | 850.305.006 | |
| | 0.5 g/l Glucose, 0.25 g/l Lactate | 850.305.000 | |
| | 1 g/l Glucose, 0.5 g/l Lactate | 850.305.001 | |
| | 2 g/l Glucose, 1 g/l Lactate | 850.305.002 | |
| | 4 g/l Glucose, 2 g/l Lactate | 850.305.003 | |
| | 10 g/l Glucose, 5 g/l Lactate | 850.305.004 | |
| | 20 g/l Glucose, 10 g/l Lactate | 850.305.005 | |
| | | | |
| | 0.2 g/l Methanol | 850.301.002 | |
| | 1 g/l Methanol | 850.301.004 | |
| | 5 g/l Methanol | 850.301.005 | |
| | 20 g/l Methanol | 850.301.008 | |
| | | | |
| | 0.5 g/l Ethanol | 850.302.004 | |
| | 2 g/l Ethanol | 850.302.001 | |
| 4 g/L Ethanol | 850.302.002 | | |
| 40 g/L Ethanol | 850.302.005 | | |
| Cleaning solution Content: 1 liter | Application Glucose/Lactate; ready to use | 850.300.710 | |
| | Application Ethanol/Methanol; ready to use | 850.300.711 | |



| Sampling system dialysis probe | | |
|---|---|-------------|
| Part | Description | Part no. |
| Dialysis probe | Scope of delivery: Dialysis probe, installation kit, 2 membranes and user manual | |
| | Length: 132 mm | 860.202.510 |
| | Length: 165 mm | 860.202.520 |
| | Length: 212 mm | 860.202.530 |
| | Length: 232 mm | 860.202.540 |
| | Length: 300 mm | 860.202.545 |
| | Length: 332 mm | 860.202.550 |
| | Length: 362 mm | 860.202.560 |
| | Length: 432 mm | 860.202.570 |
| Spare parts sampling system dialysis probe | | |
| Adapter | 25/12 mm for the installation of the 165 mm dialysis probe in 25 mm side port (Ingold port 52 mm) | 860.301.001 |
| | 19/12 mm for the installation of the dialysis probe in 19 mm cover port (RD28x1/8") | 860.300.017 |
| | 19/12 mm for the installation of the dialysis probe in 19 mm cover port (M26x1) | 860.300.016 |
| Lunette dialysis probe | -0.20 mm for the application Ethanol/Methanol | 860.203.050 |
| Retaining nut | PG 13.5 with o-ring and sliding ring | 860.300.012 |
| Installation kit | Parts for the installation of the dialysis probe in the bioreactor | 809.100.130 |
| Spare part for the installation kit | Adapter UNF/LUER male and female (5 pcs) | 809.100.132 |
| | Autoclave Loop UNF/UNF (5 pcs) | 809.100.133 |
| Consumables sampling system dialysis probe | | |
| Membranes, content: 5 pieces | Application Glucose/Lactate | 860.211.049 |
| | Application Glucose/Lactate/cellulase resistant | 860.211.043 |
| | Application Glucose/Lactate/low measuring range | 860.211.045 |
| | Application Glucose/Lactate/low immersion depth | 860.211.080 |
| | Application Ethanol/Methanol | 860.211.036 |



| Sampling system bypass module | | |
|---|--|----------------------------|
| Part | Description | Part no. |
| Bypass module | Scope of delivery: Bypass module, o-ring, installation kit, 2 membranes and user manual | |
| | Bypass module stainless steel, 3-part diffusion block with 2 barbed tubing adapter for I.D. 6 mm and I.D. 9 mm | 860.202.001 |
| | Bypass module PEEK, 2-part diffusion block with 2 pump tubing adapter for I.D. up to 2 mm | 860.202.002 |
| Spare parts sampling system bypass module | | |
| Installation kit | For bypass module stainless steel For bypass module PEEK | 809.100.135 809.100.136 |
| Consumables sampling system bypass module stainless steel/PEEK | | |
| Membranes, Content: 5 pieces | Application Glucose/Lactate for measuring range 0.5 – 40 g/l measuring range 0.1 – 5 g/l | 860.211.050 860.211.046 |



| Sampling system filtration probe | | |
|---|---|-------------|
| Part | Description | Part no. |
| Filtration probe for the installation in 12 mm cover port | Scope of delivery: Filtration probe with LUER connection, blind plug, 1 membrane, o-ring, cap nut, retaining nut PG 13.5 and user manual | |
| | Standard version installation depth ca. 160-230 mm | 860.300.300 |
| | Extended version installation depth ca. 160-330 mm | 860.300.301 |
| | Extended version installation depth ca. 160-480 mm | 860.300.302 |
| Filtration probe for the installation in 25 mm side port | Scope of delivery: Filtration probe with LUER connection, blind plug, 1 membrane, cap nut, shut-off cock, o-rings and user manual | |
| | Standard version membrane length: 130 mm | 860.300.320 |
| | Short version membrane length: 90 mm | 860.300.321 |
| Spare parts sampling system filtration probe | | |
| Adapter | 19/12 mm for the installation of the 12 mm filtration probe in 19 mm cover port (RD 28x1/8") | 860.300.017 |
| | 19/12 mm for the installation of the 12 mm filtration probe in 19 mm cover port (M26x1) | 860.300.016 |
| Membrane protective cage | For the filtration probe with membrane length 130 mm, installation in 25 mm side port (Insertion depth extended by ca. 25 mm) | 860.300.350 |
| | For the filtration probe with membrane length 90 mm, installation in 25 mm side port (Insertion depth extended by ca. 25 mm) | 860.300.351 |
| Retaining nut | PG 13.5 with o-ring and sliding ring | 860.300.012 |
| Blind plug | Locking the filtration probe | 816.000.150 |
| Hydrophilization set | Tubing set for the hydrophilization of filtration membranes | 130.200.150 |
| Consumables sampling system filtration probe | | |
| Membranes | Length: 130 mm | 860.300.330 |
| | Length: 90 mm | 860.300.331 |