

What is in the package?

No	Item	Description
1	Vessel system	<ul style="list-style-type: none"> Autoclavable bioreactor vessel, 0.5 liter (0.2 to 0.4 liter working volume) total capacity. Stainless steel (316L) headplate 6 pcs PG13.5 to PG13.5 adaptor 5 pcs silicon septum Glas Allihn condenser Screw cap with hole [polyoxymethylene (POM)] 5 mm stirrer shaft, ball bearing housing 2 pcs polycarbonate open blade turbine Sparger, upwards-facing holes
2	Aeration system	<ul style="list-style-type: none"> Bronkhorst IQ+FLOW ultra compact Mass Flow Controller
3	Agitation system	<ul style="list-style-type: none"> Brushless DC motor with 0.2Nm torque Closed-loop speed control system: 1-1200rpm
4	Temperature control	<ul style="list-style-type: none"> Peltier based thermoelectric temperature control Temperature range: 10-55°C Accuracy: ± 0.1 °C
5	pH	<ul style="list-style-type: none"> Hamilton EasyFerm Plus PHI K8 120 Measuring Range: pH 0 to 14
6	Dissolved Oxygen	<ul style="list-style-type: none"> Hamilton VisiFerm RS485-ECS 120 H2 Optical 4 ppb to 25 ppm (DO) 0 to 62.85 %-vol or 0 to 300 %-sat
7	Peristaltic pumps	<ul style="list-style-type: none"> Acid, Base, Feed, Antifoam pumps + tubing PID automatic enactment and control, Fermentation process control (Individually programmable for any task) Range: 10μL/h – 20mL/h
8	Off gas CO ₂ analyzer	<ul style="list-style-type: none"> ExplorIR®-W 5% CO2 Sensor Based on infrared LED technology
9	Off gas O ₂ analyzer	<ul style="list-style-type: none"> UV Flux 25% Oxygen Smart Flow Through Sensor Based on fluorescence quenching
10	Software	<ul style="list-style-type: none"> Web application Software runs on a server (bioreactor itself), while users connect to it from their computers using an Internet browser (locally or over VPN)