



ACCESSORIES SHAKERS

Cell Growth Quantifier – CGQ

Non-invasive online monitoring of biomass in shake flasks

The CGQ by aquila biolabs is a laboratory device for online monitoring of biomass in shake flasks without taking the flasks out of the incubation shaker.

The CGQ determines the biomass concentration automatically and non-invasively by a patented optical measurement. Thus, profound microbial growth kinetics of highest precision can be generated.

- **Non-invasive**
Consistent and undisturbed growth of microbial cultures
- **Automatic**
Saves hands-on time and costs
- **Real-time measurement**
React quickly to any deviations
- **High data density**
Detailed process monitoring at any given time
- **Parallel applications**
Monitor up to 16 shake flasks simultaneously



Flask sizes
250 mL; 300 mL; 500 mL;
1000 mL; 2000 mL



Applications
Bacteria and yeast cell cultures



Footprint
Sensor plates: Ø 92–177 mm
Base Station starting from
44 x 105 x 109 mm (L x W x H)



Compatibility
With the INFORS HT shakers
and standard laboratory equip-
ment of all manufacturers

ДИА-М
современная лаборатория

www.dia-m.ru
2022 on-line

We bring life to your laboratory.

INFORS HT

The CGQ consists of four components



The **sensor** plate is positioned under the shake flask and measures the biomass non-invasively. It is available for 5 flask sizes.



Each shake flask is darkened with a **cover** to ensure measurements of highest precision and sensitivity.



The **base station** designed for 8 or 16 shake flask bundles the data from all monitored flasks and sends it to the cgQuant software.



The **cgQuant Software** analyses and visualises the biomass signal from all monitored shake flasks.

Fits ideally on all glass and single-use flasks (with and without baffles), spring clamps and sticky plates («Sticky Stuff»).

Applications

The CGQ can be used for a diverse range of scientific applications, e.g.

- Growth-curve-guided induction of protein expression
- Media development / optimisation
- Screening / strain comparisons
- Detection of limitations and contaminations
- Analysis of growth kinetics
- Optimisation of culture conditions (filling volume, min⁻¹)
- Online monitoring of thermophile organisms

“The CGQ has enabled us to obtain accurate information on the growth kinetics of hyperthermophilic archaea and has solved the problem of manually generating data for prolonged periods of time and of dealing with evaporation effects due to the high temperature.”

Prof. Dr. ir. Eveline Peeters, Group Leader at Vrije Universiteit Brussel, Belgium

aquila**biolabs** **Exclusively** from INFORS HT and INFORS HT distributors.

000 «Диаэм»

Москва
ул. Магаданская, 7/3
тел./факс:
(495) 745-0508
sales@dia-m.ru

Новосибирск
пр. Акад.
Лаврентьева, 6/1
тел./факс:
(383) 328-0048
nsk@dia-m.ru

Казань
ул. Парижской
Коммуны, д. 6
тел./факс:
(843) 210-2080
kazan@dia-m.ru

С.-Петербург
ул. Профессора
Попова, 23
тел./факс:
(812) 372-6040
spb@dia-m.ru

Ростов-
на-Дону
пер. Семашко, 114
тел./факс:
(863) 250-0006
rnd@dia-m.ru

Пермь
Представитель
в УФО
тел./факс:
(342) 202-2239
perm@dia-m.ru

www.dia-m.ru

Воронеж
Представитель
тел./факс:
(473) 232-4412
voronezh@dia-m.ru

Армения
Представитель
тел.
094-01-01-73
armenia@dia-m.ru