

BioChip-I (Order No. 08505)

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General

Please check delivery for transport damage when unpacking.

Description

Multiparametric BioChip for measurement (Impedance, DO and pH) of cellular vitality and changes in bioimpedance on transparent substrate for optical access via microscope.

Caution

Handle with care!

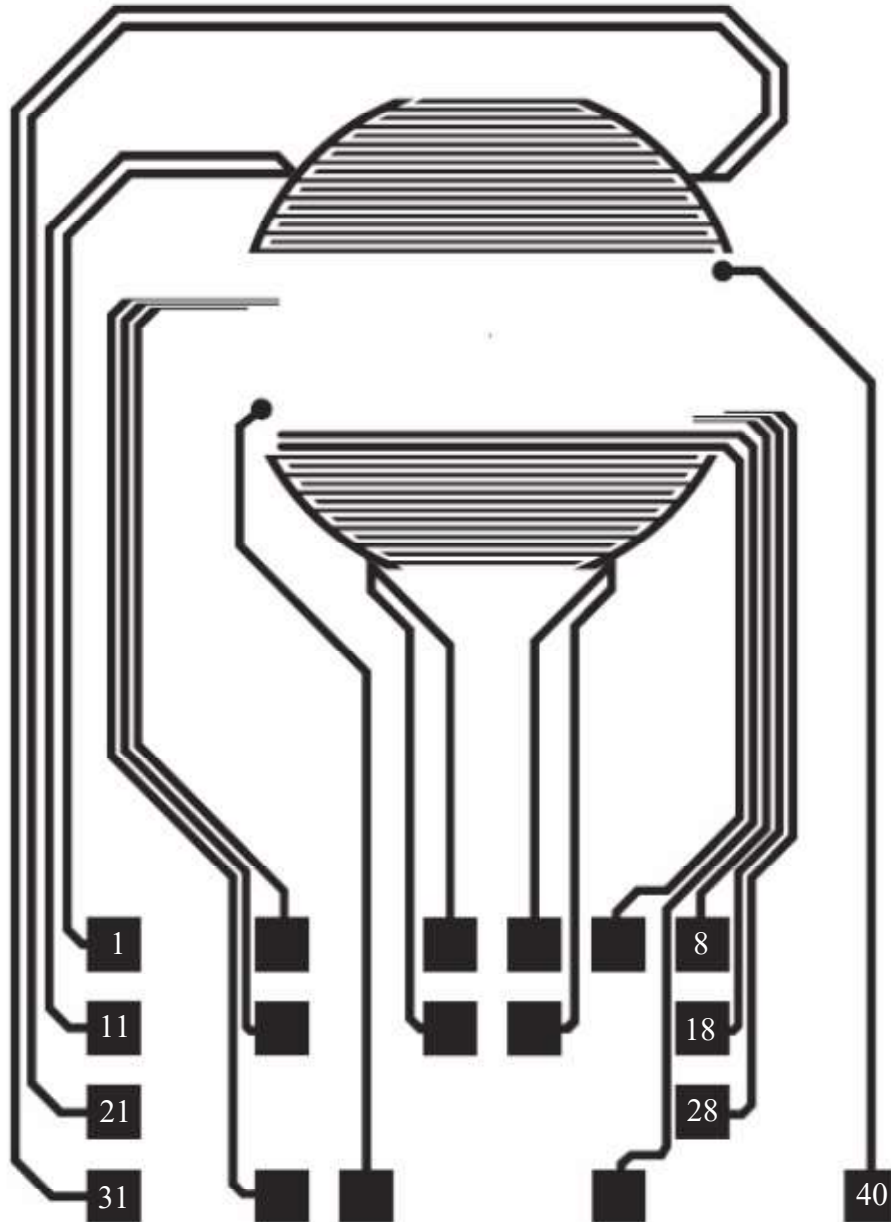
- Beware of cutting damage.



In general **BioChip-I** may only be used in combination with cellasys IMOLA-IVD by **qualified personnel** of a research or healthcare institution. Read the **IMOLA-IVD manual** thoroughly and carefully follow the instructions and guidelines provided.

Drawing

BIOGRAPHY  www.cellasys.com
BMBF FKZ:02PN2241 BioChip-I V17/11



Pin configuration

Pin No.	Name	Description
1	IDES1AU	Bioimpedance sensor 1, voltage connector A
2	-	Not connected
3	O21REF	Dissolved oxygen sensor 1, reference electrode
4	-	Not connected
5	IDES2AI	Bioimpedance sensor 1, current connector A
6	IDES2BI	Bioimpedance sensor 2, current connector B
7	BEAM2	Beam electrode 2
8	O22R2	Dissolved oxygen sensor 2, ring electrode 2
9	-	Not connected
10	-	Not connected
11	IDES1AI	Bioimpedance sensor 1, current connector A
12	-	Not connected
13	O21WK	Dissolved oxygen sensor 1, work electrode
14	-	Not connected
15	IDES2AU	Bioimpedance sensor 2, voltage connector A
16	IDES2BU	Bioimpedance sensor 2, voltage connector B
17	-	Not connected
18	O22WK	Dissolved oxygen sensor 2, work electrode
19	-	Not connected
20	-	Not connected
21	IDES1BI	Bioimpedance sensor 1, current connector B
22	-	Not connected
23	-	Not connected
24	-	Not connected
25	-	Not connected
26	-	Not connected
27	-	Not connected
28	O22R1	Dissolved oxygen sensor 2, ring electrode 1
29	-	Not connected
30	-	Not connected
31	IDES1BU	Bioimpedance sensor 1, voltage connector B
32	-	Not connected
33	O21AUX	Dissolved oxygen sensor 1, auxiliary electrode
34	PH1	pH sensor 1
35	-	Not connected
36	-	Not connected
37	BEAM1	Beam electrode 1
38	-	Not connected
39	-	Not connected
40	PH2	pH sensor 2

Technical data

Dimensions:	33.8 x 24.0 x 0.05 mm ³
Weight:	0.05 g
Optical properties	50 µm PET foil
Operating temperature:	0 °C to +80 °C

pH (PH)

Dimensions:	~ 3 mm ²
Linear range:	tbd.
Sensitivity:	tbd.
Response time (t ₉₀):	tbd.

Dissolved oxygen (O2)

Dimensions:	~ 3 mm ²
Linear range:	tbd.
Sensitivity:	tbd.
Response time (t ₉₀):	tbd.

Impedance (IDES)

Dimensions:	~ 40 mm ²
Linear range:	tbd.
Geometry:	100 µm width, 100 µm distance
Response time (t ₉₀):	< 1 s

Beam electrodes (BEAM)

Dimensions:	~ 0.2 x 10 mm ²
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Intended use

The BioChip-I is designed to be used in combination with IMOLA-IVD, for multiparametric measurement (impedance, pO₂, pH and temperature) of cellular vitality and bioimpedance.

The BioChip-I is a single-use device; it must not be used for multiple applications!

Intended misuse

The BioChip-I must not be operated with reagents and reagent products listed in directive 98/79 EEC, Annex II List A and List B.

Liability / Copyright

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