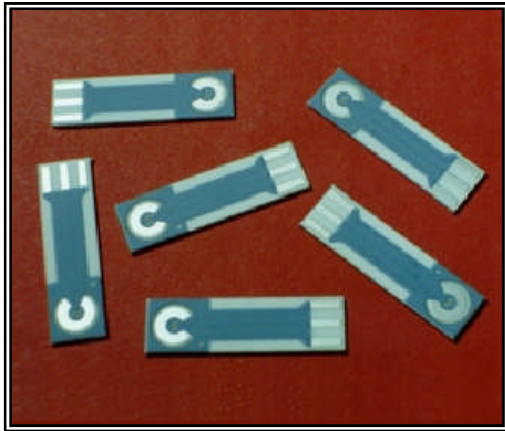


ACHE BIOSENSOR

Type : AC1.AChE



Description

Acetylcholinesterase from electric eel type VI-S is immobilized on the active surface of a working electrode of amperometric substrate AC1.W2.RS. The diameter of the immobilized bioactive membrane is 2 mm and the mean applied activity is 1 unit /mm².

Physical Parameters

Weight	Dimensions		
	Length	Width	Thickness
0.4 gms	25.40 mm	7.26 mm	0.63 mm

$$A = 4,00 \pm 0,05 \text{ mm}$$

$$D = 1,00 \pm 0,05 \text{ mm}$$

Electrode Materials

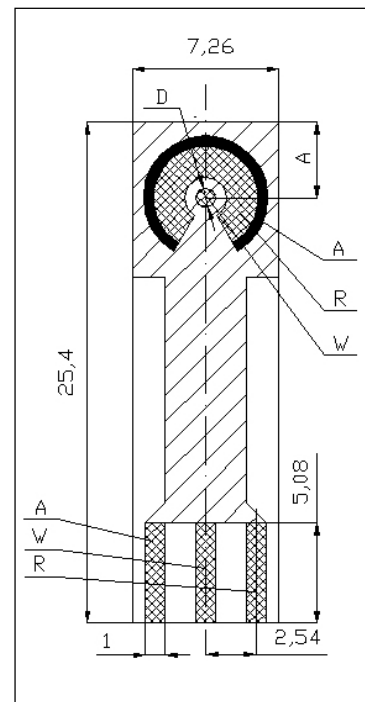
Electrode materials are defined by:

AC1.W2.RS

Working electrode – pure platinum

Reference electrode – silver

(Detailed description of sensor: AC1.W*.R* - datasheet)



On the surface on the working electrode is an enzymatic membrane containing cca 1 IU of AChE enzyme, which is immobilized.

Unit Definition

Acetylcholinesterase from electric eel:

- AChE
- True cholinesterase
- EC 3.1.1.7
- Sigma Aldrich – type VI-S
- One unit will hydrolyze 1,0 μmol of acetylcholine to choline and acetate per minute at pH = 8,0 and temperature = 37°C

Connector Types for AC1.AChE Sensor Range

- KA1
- KSA1

Optional Equipment

Evaluating Units:

- BA1.*

Experimental Accessories:

- Flow Through Adapter (FC1.*, FC2.*)
- Micro Flow System (MFS.*)
- Peristaltic Pump (*PP*.)
- Stand
- Thermostated Vesel (TC1.*, TC2.*)
- Microthermostat (MT.*)

Sensor Usage

Measurement of AChE inhibitor concentration (organophosphorous and carbamate pesticides, toxic agents like Sarin, chemical weapons, ...)

Software Packs

These are available for:

- BTA software – PC program containing a specialized module for relative inhibition evaluation

Expiration

3 months at temperature 0 – 4 °C

Transport

Sensors are delivered in thermoboxes keeping low temperature.

Ordering Information

- The order reference: AC1.AChE
- Minimum order quantity – 25 sensors
- Orders in multiples of 25
- Delivery time for standard AC1.AChE sensors is 4 weeks from receipt of order
- Delivery time for non-standard AC1.AChE sensors depends on final technical specification of order

Examples of Order:

- 100 pieces – AC1.AChE