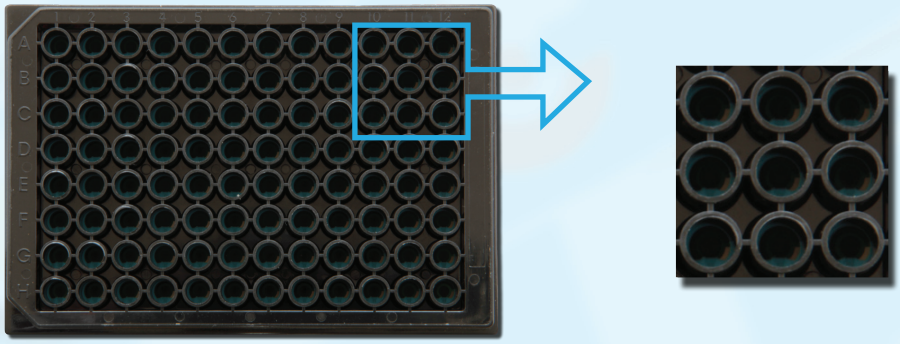
96X Multi-Walled Carbon Nanotubes modified Screen-Printed Carbon Electrodes

Ref. 96X110CNT

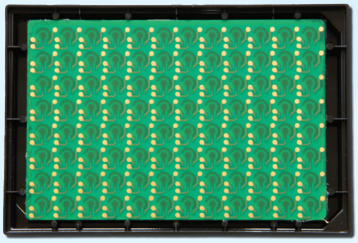


DropSens launches Electrochemical ELISA plates modified with **Carboxyl functionalised Multi-Walled Carbon Nanotubes**. This is a new screen-printed electrochemical array formed by 96 three-electrode electrochemical cells with carbon-based working electrodes modified with Carboxyl functionalised Multi-Walled Carbon Nanotubes. This electrochemical array is fixed in the bottom of a standard microtiter ELISA plate with 96 wells.

Multi-Walled Carbon nanotubes modified SPEs are mainly focused on the development of electrochemical (bio)sensors with an enhanced active area. The carbon nanotubes modified electrodes show better electron-transfer than conventional screen-printed carbon electrodes, and retain the electrocatalytic properties of carbon nanotubes.

Electrochemical detection can be now easily coupled to ELISA assays by using standard instrumentation already available in any lab. Standard volumes around 300-400 µl can be used in the wells to carry out affinity interactions. In the detection step any electrochemical technique can be applied and any electrochemical parameter can be easily optimized.

The electrochemical cell consists of:



Working electrode: Multi-Walled Carbon nanotubes / Carbon (3 mm diameter)
Auxiliary electrode: Carbon
Reference electrode: Silver
Plastic substrate: L7.4 cm x W11 cm x H0.5 mm
Electric contacts: Gold

Gold plated contact paths are printed in the backside of the 96X110CNT plate. 96x3 contacts are present corresponding to independent WE, AUX and RE printed in the bottom of each well.

These 96 well-plates are commercialised in 2 units packs.
Electrochemical ELISA plates are placed in resealable zip lock bags, and should be stored at room temperature, protected from light in a dry place.

Also, a specific **connector** ref. CONNECTOR96X acts as an interface between the screen-printe electrodes 96X format and any kind of (multi) potentiostat is available at ***DropSens***.

Related products

CONNECTOR96X

MAGNET96X

STAT8000

CABSTAT1

Full Catalogue

Contact Form

Parque Tecnológico de Asturias - Edif. CEEI. 33428 LLanera (Asturias). Spain
(+34) 985 27 76 85 - info@dropsens.com - www.dropsens.com