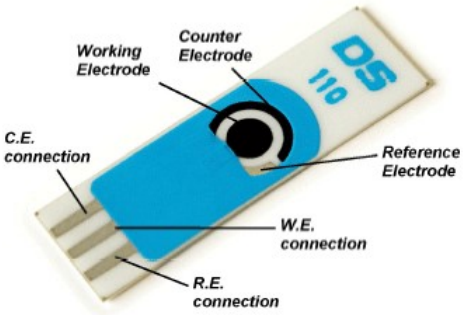
Screen-printed electrodes

SCREEN-PRINTED ELECTRODES (SPEs)



Screen-printed electrodes based on carbon, gold, platinum, silver or carbon nanotubes inks. Innovative strips manufactured for electrochemical analysis in environmental, clinical or agri-food areas.

Low cost, disposable devices specially designed to work with microvolumes of sample. Ideal for quality control or research purposes and also for teaching electrochemistry.

Strip's general dimensions: 3.4 x 1.0 x 0.05 cm. Reference electrode and electric contacts made of silver (unless otherwise stated).

Personalized SPEs can be manufactured following customer's specifications on materials and patterns.

:: UNMODIFIED SPEs

:: MODIFIED CARBON SPEs

:: DUAL SPEs (BISENSORS)

:: CUSTOMIZED SPEs

:: MEMBRANE FOR SCREEN-PRINTED ELECTRODES

Metrohm DropSens REQUEST MORE INFO!

UNMODIFIED SPEs







DRP-110

DRP-C110

DRP-C11L

Screen-printed Carbon Electrodes

Working (4 mm diameter) and counter electrodes made of carbon. Ideal for working with 50 µL volume (ref. DRP-110) or by Introducing them in solution (ref. DRP-C110). Also available with Ag/AgCl reference electrode (ref. DRP-C11L)

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-150

Screen-printed Carbon Electrodes (Aux.: Pt ; Ref.: Ag)

Working (4 mm diameter) electrode is made of carbon, counter electrode is made of platinum, reference electrode is made of silver and electric contacts are made of silver. Ideal for working with 50 µL volume.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).







DRP-220AT

DRP-220BT

DRP-C220AT

DRP-C220BT

DRP-C223AT

DRP-C223BT

Screen-printed Gold Electrodes

Electrodes screen-printed with high (AT) and low (BT) temperature curing inks which may have different properties depending on the application. Working electrode is available in two sizes: 4 mm or 1.6 mm diameter. Plus a specific design for work in solution.

Working (4 or 1.6 mm diameter) and counter electrodes are made of gold, whereas reference electrode and electric contacts are made of silver. Ideal for working with 50 µL volume (refs. 220AT, 220BT, C223AT, C223BT) or by introducing them in solution (refs. C220AT, C220BT).

AT models: Electrodes screen-printed with high temperature curing ink.
BT models: Electrodes screen-printed with low temperature curing ink.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).





DRP-250AT

DRP-250BT

Screen-printed Gold Electrodes (Aux.: Pt ; Ref.: Ag)

Working (4 mm diameter) electrode is made of gold, counter electrode is made of platinum, reference electrode is made of Ag and electric contacts are made of silver. Ideal for working with 50 µL volume.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-C013

DRP-010

Screen-printed Silver Electrodes (Aux.: C ; Ref.: Ag)

Working (1.6 mm or 4 mm diameter) electrode is made of Silver and counter electrode is made of Carbon; reference electrode and electric contacts are made of Silver. For electrochemical measurements or in-situ EC-SERS. Ideal for working with 50 µL volume.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).

DRP-550

Screen-printed Platinum Electrodes



DRP-C550

DRP-550BT

Working (4 mm diameter) and counter electrodes made of platinum. Ideal for working with 50 μL volume (ref. DRP-550) or by Introducing them in solution (ref. DRP-C550). Also available in low temperature curing ink (ref. 550BT).

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-810

Screen-Printed Ruthenium Oxide Electrodes (Aux.: C; Ref.: Ag)

Working (4 mm diameter) electrode is made of Ruthenium Oxide, counter electrode is made of Carbon, reference electrode is made of Silver and electric contacts are made of Silver. It is ideal for working with 50 μL volume.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-910

Screen-printed Palladium Electrodes (Aux.: C ; Ref.: Ag)

Working (4 mm diameter) electrode is made of Palladium, counter electrode is made of Carbon, reference electrode is made of silver and electric contacts are made of silver. Ideal for working with 50 μL volume.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-ITO10

Optically Transparent ITO Screen-printed Electrode

These disposable ITO Electrodes (ref.ITO10) made in a plastic substrate are based of a ITO Working Electrode with a Carbon Counter Electrode and a Silver reference electrode. Specially designed for Spectroelectrochemical applications.

Dimensions: 33 x 10 x 0.175 mm



DRP-P10

Optically Transparent PEDOT Screen-printed Electrode

These disposable PEDOT Electrodes (ref.P10) made in a plastic substrate are based of a PEDOT Working Electrode with a Carbon Counter Electrode and a Silver reference electrode. Specially designed for ElectroChemiLuminiscence or Spectroelectrochemical applications.

Dimensions: 33 x 10 x 0.175 mm (Length x Width x Height).

DRP-AUTR10

Screen-printed Gold Optically Transparent Electrode

Screen-printed electrodes on a transparent plastic substrate with a thin layer gold working electrode deposited by sputtering process. The thin layer provide enough transparency and a very flat surface is achieved. Gold working electrode (4 mm diameter),



carbon counter electrode and silver reference electrode system ideal for working with low volume of sample.

Dimensions: 33 x 10 x 0.5 mm



DRP-COTE10

Carbon Optically Transparent Screen-printed Electrode

Disposable Carbon Optically Transparent electrodes (ref. COTE10) made in a plastic transparent substrate with a working electrode of Single Walled Carbon Nanotubes (SWCNTs). This thin layer working electrode is combined with screen-printed carbon auxiliary and silver reference electrodes, ideal for performing spectroelectrochemical experiments.

Dimensions: 33 x 10 x 0.175 mm.



DRP-BIOFV1

Screen-Printed Electrodes for Biofuel Cells

DropSens launches Screen-Printed Electrodes with an appropriate configuration to develop self-powered electrochromic biosensors with a potential of being "instrumentless" sensoric devices for analyte detection.

Dimensions: 3.3 x 1.0 x 0.0175 cm (Length x Width x Height).



DRP-PW-AU10

Gold Electrode over flexible plastic substrate

Gold electrodes made on flexible plastic substrate with a working electrode of 4 mm. They allow working with low volumes of sample, being suitable for decentralized assays, to develop specific (bio)sensors and other electrochemical studies



DRP-CU10
DRP-BI10
DRP-TI10
DRP-SB10
DRP-CR10
DRP- NI10
DRP-SN10
DRP-AL10
DRP-MO10
DRP-PB10
DRP-TA10
DRP-W10
DRP-ST10
DRP-CST10
DRP-CO10

Thick-Film Electrodes - Copper, Bismuth, Titanium, Antimony, Chromium, Nickel, Tin, Aluminium, Molybdenum, Lead, Tantalum, Tungsten, Steel, Carbon Steel and Cobalt

Disposable Thick-Film Electrodes. Suitable for working with microvolumes and ideal for decentralized assays or to develop specific (bio)sensors. Useful for undergraduate lab to avoid tedious polishing of solid electrodes.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-BDD10

DRP-CBDD10

Thick-film Boron Doped Diamond Electrodes (Aux.: C, Ref.: Ag)

Miniaturised Boron Doped Diamond working electrode (3.6 mm diameter) over ceramic substrates. Auxiliary electrode is made of Carbon and reference electrodes is made of Silver. Innovative electrode material, BDD has an enhanced electrochemical window. Ideal for working with 50 μL volume.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-SPESMIX

Screen-printed Electrodes (MIX)

Mix of screen-printed electrodes with different working electrodes materials: carbon (ref. 110), gold AT or BT (refs. 220AT and 220BT) and platinum (550). The possibility to check the different electrochemical behavior of these references previous developing your own application.



DRP-SERSMIX

Surface Enhanced Raman Spectroscopy (SERS) Screen-Printed Mixed Electrodes

Mix of screen-printed electrodes with different working electrodes materials: silver (ref. 010), gold BT (ref. 220BT) or copper (ref. CU10). Ideal for performing EC-SERS and checking the best substrate for your applications. Ideal for working with 50 µL volume.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-OTEMIX

Optically Transparent Electrodes Mix

Mix of transparent working electrodes with different electrode materials: PEDOT (ref. P10), ITO (ref. ITO10), Gold (ref. AUTR10) and Single-Walled Carbon Nanotubes (ref. COTE10). Check the different performances of these references previously developing your spectroelectrochemical experiments.



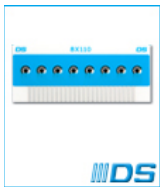
DRP-AUMIX

Screen-printed Gold Electrodes (MIX)

Mix of Gold screen-printed electrodes combining references of high (AT) and low (BT) temperature curing inks which may have different properties depending on the application. Working electrode is available in two sizes: 4 mm or 1.6 mm diameter.

· AT models: Electrodes screen-printed with high temperature curing ink.
· BT models: Electrodes screen-printed with low temperature curing ink.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-8X110

8X Screen-printed Carbon Electrodes

Screen-printed electrochemical array formed by eight 3-electrode electrochemical cells with carbon-based working electrodes. Specially designed for the development of multiple simultaneous analysis. The system can be customised with other working electrode materials such as gold, platinum or silver.

Dimensions: 3.4 x 7.9 x 0.1 cm (Length x Width x Height).



DRP-8X220AT

8X Screen-printed Gold Electrodes

Screen-printed electrochemical array formed by eight 3-electrode electrochemical cells with high temperature gold-based working electrodes. Specially designed for the development of multiple simultaneous analysis. The system can be customised with other working electrode materials such as carbon modified with nanomaterials, platinum or silver.

Dimensions: 3.4 x 7.9 x 0.1 cm (Length x Width x Height).



DRP-8X550

8X Screen-printed Platinum Electrodes

Screen-printed electrochemical array formed by eight 3-electrode electrochemical cells with Platinum-based working electrodes. Specially designed for the development of multiple simultaneous analysis. The system is available also in carbon and gold and can be customised with other working electrode materials such as silver or carbon modified with nanomaterials.

Dimensions: 3.4 x 7.9 x 0.1 cm (Length x Width x Height).



DRP-4W110

4W Screen-printed Carbon Electrodes

Screen-printed electrode formed by four carbon working electrodes sharing auxiliary and reference electrode. These electrodes are aimed at detecting four signals simultaneously, allowing (differential) measurement of up to four analytes in the solution. The system can be customised with other working electrode materials such as gold, platinum or silver.

Dimensions: 3.8 x 2 x 0.1 cm (Length x Width x Height).

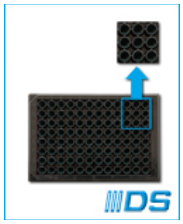


DRP-8W110

8W Screen-printed Carbon Electrodes

Screen-printed electrode formed by eight carbon working electrodes sharing auxiliary and reference electrode. These electrodes are aimed at detecting eight signals simultaneously, allowing (differential) measurement of up to eight analytes in the solution. The system can be customised with other working electrode materials such as gold, platinum or silver.

Dimensions: 3.8 x 2 x 0.1 cm (Length x Width x Height).



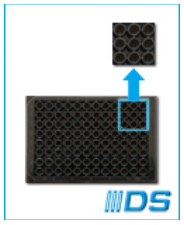
DRP-96X110

96X Screen-printed Carbon Electrodes

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

The system can be customised with other working electrode materials such as silver or carbon modified with nanomaterials.

Dimensions: 7.4 x 11 x 0.5 cm (Lenght x Width x Height).



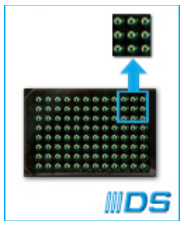
DRP-96X220

96X Screen-printed Gold Electrodes

DropSens launches Electrochemical ELISA plates. This is a new screen-printed electrochemical array formed by 96 three-electrode electrochemical cells with Gold -based working electrodes. This electrochemical array is fixed in the bottom of a standard microtiter ELISA plate with 96 wells.

The system can be customised with other working electrode materials such as silver or carbon modified with nanomaterials.

Dimensions: 7.4 x 11 x 0.5 cm (Lenght x Width x Height).



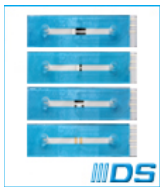
DRP-96X550

96X Screen-printed Platinum Electrodes

DropSens launches Electrochemical ELISA plates. This is a new screen-printed electrochemical array formed by 96 three-electrode electrochemical cells with Platinum -based working electrodes. This electrochemical array is fixed in the bottom of a standard microtiter ELISA plate with 96 wells.

The system can be customised with other working electrode materials such as silver or carbon modified with nanomaterials.

Dimensions: 7.4 x 11 x 0.5 cm (Lenght x Width x Height).



DRP-TLFCL110

DRP-TLFCL110S

DRP-TLFCL1110

DRP-TLFCL2222AT

Thin layer flow-cell screen-printed electrodes

Screen-printed electrodes integrated in one channel flow-cell. They are suitable for working with Flow Injection Analysis systems and also in batch mode. The transparent cover allows you an easy control of the sample volume.



DRP-TLFCL110-CIR

DRP-TLFCL210AT-CIR

DRP-TLFCL210BT-CIR

DRP-TLFCL510-CIR

DRP-TLFCL010-CIR

Thin layer flow-cell screen-printed electrodes, circular working electrode

Screen-printed electrodes integrated in one channel flow-cell, where working electrode is circular shaped with a diameter of 4 mm. They are suitable for working with Flow Injection Analysis systems and also in batch mode. The transparent cover allows you an easy control of the sample volume.

MODIFIED CARBON SPEs

These modifications give different properties to carbon electrodes making them suitable for diverse applications.

Modifications are applied to Working Electrode. Counter Electrode is made of carbon and Reference Electrode is made of silver. The screen-printed carbon electrodes are modified with **electrochemical mediators** and **nanomaterials**, among others.

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DRP-110STR

DRP-X1110STR

INSTRUCTIONS

Screen-Printed Carbon Electrodes (SPCEs) modified with Streptavidin

DropSens launches Screen-Printed Carbon Electrodes (SPCEs) modified with Streptavidin. Streptavidin modified SPCEs provide a stable high affinity surface for a large amount of biotinylated molecules. These SPCEs are designed for the development of (bio) sensors with an enhanced electrochemical active area.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)

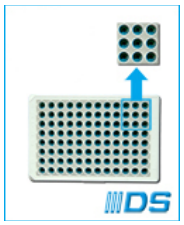


DRP-8X110STR

8X Streptavidin modified Screen-printed Carbon Electrodes

Screen-printed electrochemical array formed by eight 3-electrode electrochemical cells with high streptavidin modified carbon-based working electrodes. Specially designed for the development of multiple simultaneous analysis. The system can be customised with other working electrode materials such as carbon modified with other nanomaterials.

Dimensions: 3.4 x 7.9 x 0.1 cm (Length x Width x Height).



DRP-96X110STR

INSTRUCTIONS

Streptavidin modified 96X Screen-printed Carbon Electrodes

DropSens launches Electrochemical ELISA plates modified with Streptavidin. This is a new screen-printed electrochemical array formed by 96 three-electrode electrochemical cells with carbon-based working electrodes modified with Streptavidin that provides a stable high affinity surface for a large amount of biotinylated molecules. This electrochemical array is fixed in the bottom of a standard microtiter ELISA plate with 96 wells.

Dimensions: 7.4 x 11 x 0.5 cm (Lenght x Width x Height).



DRP-110XTR

DRP-X1110XTR

INSTRUCTIONS

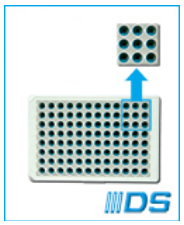
Screen-Printed Carbon Electrodes (SPCEs) modified with ExtrAvidin

DroSens launches Screen-Printed Carbon Electrodes (SPCEs) modified with ExtrAvidin. ExtrAvidin combines Avidin high specificity with low non-specific adsorption of Streptavidin. These SPCEs are designed for the development of (bio) sensors with an enhanced electrochemical active area.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).

DRP-96X110XTR

ExtrAvidin modified 96X Screen-printed Carbon Electrodes



INSTRUCTIONS

DropSens launches Electrochemical ELISA plates modified with ExtrAvidin. ExtrAvidin combines Avidin high specificity with low non-specific adsorption of Streptavidin. This electrochemical array is fixed in the bottom of a standard microtiter ELISA plate with 96 wells.

Dimensions: 7.4 x 11 x 0.5 cm (Lenght x Width x Height).



DRP-110PANI

DRP-X1110PANI

Screen-Printed Carbon Electrodes (SPCEs) modified with Polyaniline

DroSens launches Screen-Printed Carbon Electrodes (SPCEs) modified with Polyaniline. These SPCEs are designed for the development of (bio) sensors with an enhanced electrochemical active area.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)



DRP-110BI

DRP-X1110BI

Bismuth Oxide Modified Screen-printed Carbon Electrodes

These disposable carbon electrodes modified with bismuth (III) oxide are ideal for the environmental friendly determination of heavy metals at ppb levels.

Useful for research labs to avoid mercury based electrodes.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)



DRP-110NI

DRP-X1110NI

Nickel Oxide Modified Screen-printed Carbon Electrodes

These disposable carbon electrodes modified with Nickel (II) Oxide (NiO) are designed for the electrocatalytic oxidation of small organic molecules such as carbohydrates and alcohols.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)



DRP-110GPH

DRP-X1110GPH

Graphene Modified Screen-Printed Electrodes

DropSens launches Screen-Printed Carbon Electrodes (SPCEs) modified with Graphene as a carbon based nanomaterial.

Graphene SPCEs are designed for the development of (bio) sensors with an enhanced electrochemical active area.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)

DRP-110GPHOX

DRP-X1110GPHOX

Graphene Oxide Modified Screen-Printed Electrodes

Screen-Printed Carbon Electrodes (SPCEs) modified with Graphene Oxide as a carbon based nanomaterial.



Graphene Oxide SPCEs are designed for the development of (bio) sensors with an enhanced electrochemical active area.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)



DRP-110RGPHOX

DRP-X1110RGPHOX

Reduced Graphene Oxide Modified Screen-Printed Electrodes

Screen-Printed Carbon Electrodes (SPCEs) modified with Reduced Graphene Oxide as a carbon based nanomaterial. Reduced Graphene Oxide SPCEs are designed for the development of (bio) sensors with an enhanced electrochemical active area.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)



DRP-110CNT

DRP-X1110CNT

DRP-110SWCNT

DRP-X1110SWCNT

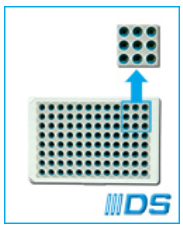
Multi- and Single- Walled Carbon Nanotubes Modified Screen-printed Electrodes

DropSens launches Screen-Printed Carbon Electrodes modified with Carboxyl functionalised Multi- and Single-Walled Carbon Nanotubes. This innovative product is mainly focused on the development of electrochemical biosensors with an enhanced active area. The new carbon nanotubes modified electrodes show better electron-transfer than conventional screen-printed carbon electrodes, and retain the electrocatalytic properties of carbon nanotubes. They are stable electrodes that can be used in FIA systems.

Working electrode (4 mm diameter) is made of Carbon Nanotubes (Multi-Walled in 110CNT and Single-Walled in 110SWCNT), counter electrode is made of carbon, whereas reference electrode and electric contacts are made of silver.

Ideal for working with 50 μL volume.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



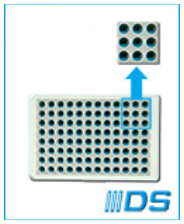
DRP-96X110CNT

Carboxyl functionalised Multi-Walled Carbon Nanotubes modified 96X Screen-printed Carbon electrode

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

This electrochemical array is fixed in the bottom of a standard microtiter ELISA plate with 96 wells.

Dimensions: 7.4 x 11 x 0.5 cm (Lenght x Width x Height)



DRP- 96X110SWCNT

Carboxyl functionalised Single-Walled Carbon Nanotubes modified 96X Screen-printed Carbon electrode

DropSens launches Electrochemical ELISA plates modified with Carboxyl functionalised Single-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 Single-Walled Carbon nanotubes mainly focused on the development of electrochemical biosensors with an enhanced active area.

The new carbon nanotubes modified electrodes show better electron-transfer than conventional screen-printed carbon electrodes, and retain the electrocatalytic properties of carbon nanotubes.

This electrochemical array is fixed in the bottom of a standard microtiter ELISA plate with 96 wells.

Dimensions: 7.4 x 11 x 0.5 cm (Lenght x Width x Height)



DRP-110CNF

DRP-X1110CNF

Carbon Nanofibres Modified Screen-printed Electrodes

DropSens launches Screen-Printed Carbon Electrodes (SPCEs) modified with Graphitized Carbon Nanofibres (CNFs).

CNFs SPCEs are designed for the development of (bio) sensors with an enhanced electrochemical active area.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)



DRP-110MC

DRP-X1110MC

Mesoporous Carbon Modified Screen-printed Carbon Electrodes

DropSens launches Screen-Printed Carbon Electrodes (SPCEs) modified with Mesoporous Carbon.

These SPCEs are designed for the development of (bio) sensors with an enhanced electrochemical active area.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)



DRP- 110OMC

DRP- X1110OMC

Ordered Mesoporous Carbon Modified Screen-printed Carbon Electrodes

DropSens launches Screen-Printed Carbon Electrodes (SPCEs) modified with Ordered Mesoporous Carbon.

These SPCEs are designed for the development of (bio) sensors with an enhanced electrochemical active area.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)

DRP-110GNP

DRP-X1110GNP

Gold NanoParticles Modified Screen-printed Carbon Electrodes

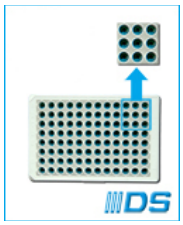


GNP-Screen-printed carbon electrodes are designed for the development of (bio) sensors with enhanced electronic transfer properties.

Working electrode (4mm) is made of GNP-Carbon, Counter electrode is made of carbon; reference electrode and electric contacts are made of silver.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)

Gold Nanoparticles modified 96X Screen-printed Carbon electrode



DRP- 96X110GNP

DropSens launches Electrochemical ELISA plates modified with Gold Nanoparticles. This is a new screen-printed electrochemical array formed by 96 three-electrode electrochemical cells with carbon-based working electrodes modified with Gold Nanoparticles mainly focused on the development of electrochemical biosensors with an enhanced active area.

This electrochemical array is fixed in the bottom of a standard microtiter ELISA plate with 96 wells.

Dimensions: 7.4 x 11 x 0.5 cm (Lenght x Width x Height)

Screen-Printed Carbon Electrodes (SPCEs) modified with Gold Nanoparticles and Streptavidin



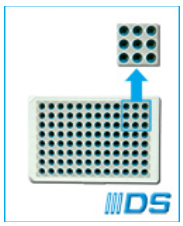
DRP-110GNP-STR

DRP-X1110GNP-STR

DropSens launches Screen-Printed Carbon Electrodes (SPCEs) modified with Gold Nanoparticles and Streptavidin. Streptavidin modified SPCE-GNPs provide a stable high affinity surface for immobilizing a large amount of biotinylated molecules. They are designed as a versatile platform for the development of several (bio)sensors.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)

Gold Nanoparticles and Streptavidin modified 96X Screen-printed Carbon Electrodes



DRP-96X110GNP-STR

DropSens launches Electrochemical ELISA plates modified with Gold Nanoparticles and Streptavidin. This is a new screen-printed electrochemical array formed by 96 three-electrode electrochemical cells with carbon-based working electrodes modified with GNP and Streptavidin that provides a stable high affinity surface for a large amount of biotinylated molecules. This electrochemical array is fixed in the bottom of a standard microtiter ELISA plate with 96 wells.

Dimensions: 7.4 x 11 x 0.5 cm (Lenght x Width x Height).

DRP-110CNT-GNP

DRP-X1110CNT-GNP

DRP-110CNF-GNP

Carbon Nanotubes - Gold Nanoparticles modified Screen-printed Carbon Electrodes

Carbon Nanofibres - Gold Nanoparticles modified



DRP-X1110CNF-GNP

DRP-110GPH-GNP

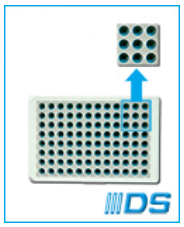
DRP-X1110GPH-GNP

Screen-printed Carbon Electrodes
Graphene - Gold Nanoparticles modified Screen-printed Carbon Electrodes

DropSens launches a line of nanohybrid Screen-Printed Carbon Electrodes (SPCEs) combining different Carbon Nanomaterials with Gold Nanoparticles.

These SPCEs are designed for the development of (bio) sensors with an enhanced electrochemical active area.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)



DRP- 96X110CNT-GNP

Carbon Nanotubes/Gold Nanoparticles modified 96X Screen-printed Carbon electrode

DropSens launches Electrochemical ELISA plates modified with Carbon Nanotubes/Gold Nanoparticles. This is a new screen-printed electrochemical array formed by 96 three-electrode electrochemical cells with carbon-based working electrodes modified with Carbon Nanotubes/Gold Nanoparticles mainly focused on the development of electrochemical biosensors with an enhanced active area.

This electrochemical array is fixed in the bottom of a standard microtiter ELISA plate with 96 wells.

Dimensions: 7.4 x 11 x 0.5 cm (Lenght x Width x Height)



DRP-110QD

DRP-X1110QD

Core quantum dots CdSe modified Screen-Printed Carbon Electrode

These disposable Screen-Printed Carbon Electrodes (SPCEs) are modified with Core quantum dots CdSe.

These Screen-printed carbon electrodes are designed for the development of sensors with a different electrochemical active area.



DRP-110CSQD

DRP-X1110CSQD

Core-shell quantum dots ZnS/CdSe modified Screen-Printed Carbon Electrode

Disposable Screen-Printed Carbon Electrodes (SPCEs) modified with core-shell quantum dots ZnS/CdSe.

These Screen-printed carbon electrodes are designed for the development of sensors with a different electrochemical active area.



DRP-110AGNP

DRP-X1110AGNP

Silver NanoParticles Modified Screen-printed Carbon Electrodes

AgNP-Screen-printed carbon electrodes are designed for the development of (bio) sensors with enhanced electronic transfer properties.

Working electrode (4mm) is made of AgNP-Carbon, Counter electrode is made of carbon; reference electrode and electric contacts are made of silver.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)



DRP-410
DRP-X4410
DRP-4W410
DRP-8W410
DRP-96X410

Screen-printed Co-Phthalocyanine / Carbon Electrode

The electrodes include Co-Phthalocyanine as electrochemical mediator in the working electrode and are ideal for the determination of hydrogen peroxide at a low detection potential. These electrodes are recommended for the development of enzymatic biosensors based on oxidases. Available in individual, dual, 4W, 8W and 96X format.

Screen-printed Meldola's Blue / Carbon Electrode



DRP-610

The electrodes include Meldola's Blue as electrochemical mediator in the working electrode and are ideal for the determination of NADH at a low detection potential. These electrodes are recommended for the development of enzymatic biosensors based on dehydrogenases.

Working electrode (4 mm) is made of Carbon/Meldola's Blue, counter electrode is made of carbon.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-710
DRP-X7710
DRP-4W710
DRP-8W710
DRP-96X710

Screen-printed Prussian Blue / Carbon Electrode

The electrode includes Prussian Blue as electrochemical mediator in the working electrode and is ideal for the determination of hydrogen peroxide at a low detection potential. These electrodes are recommended for the development of enzymatic biosensors based on oxidases. Available in individual, dual, 4W, 8W and 96X format.

Screen-printed Ferrocyanide / Carbon Electrodes



DRP-F10
DRP-XFF10

Suitable for the determination of hydrogen peroxide at a low detection potential. These electrodes are recommended for the development of enzymatic biosensors based on oxidases, for working with microvolumes and for decentralized assays.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-MEDIATORSPES

Screen-printed Mediator/Carbon Electrodes (MIX)

Mix of screen-printed carbon electrodes modified with mediators that allow the detection of H_2O_2 (refs. 410, 710, F10) or NADH (ref. 610) at a low potential. They are suitable for develop biosensors based on oxidases or dehydrogenases.



DRP-LACT10

Screen-printed Ferrocyanide / Carbon Electrode / L-Lactate Oxidase

Suitable for the determination of L(+)-Lactate in liquid samples. These lactate sensors are recommended for working with microvolumes (50 µl) and for decentralized or 'in situ' assays.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-GLU10

Screen-printed Ferrocyanide / Carbon Electrode / Glucose Oxidase

Suitable for the determination of Glucose in liquid samples. These glucose sensors are recommended for working with microvolumes (50 µl) and for decentralized or 'in situ'assays.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height).



DRP-110PPYR

Screen-printed carbon electrodes modified with PolyPyrrol

Screen-Printed Carbon elecrodes modified by electropolymerization of pyrrol. These electrodes show suitable properties for developing (bio)sensors in many different applications. They are suitable for working with low volume of sample (50 µL) and 'in-situ' analysis.

Dimensions: 3.4 x 1.0 x 0.05 cm (Length x Width x Height)



DRP-UA10

Screen-printed electrodes for uric acid detection

Suitable for detection of uric acid diluted in buffer solution is possible with these ferrocyanide electrodes modify with uricase. These sensors are recommended for working with low volume of sample (50 µL) and 'in situ' Assays.

CUSTOMIZED SPEs

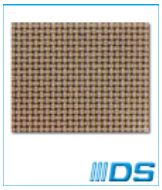


Customized SPEs

DropSens has the technology to develop screen-printed electrodes based on customer's designs. The configuration and dimensions of the electrodes are adapted to the customer's requirements. Different kinds of inks can be used and combined in customized electrodes: carbon, gold, platinum, silver, silver/silver chloride…

Screen-printed electrodes designed by other research groups, now available on our Catalog.

MEMBRANE FOR SCREEN-PRINTED ELECTRODES



DRP-MEMB

Membrane for Screen-printed Electrodes

This mesh is designed to perform analysis with small volumes of solution or sample (7,5-15 μL), allowing a good covering of the 3 electrodes system in our Screen-printed electrodes. Specially designed for improving the wettability of the three electrode system, working with small volumes or delimiting the electrochemical cell.

OUR PRODUCTS


Potentiostats


ElectroChemiLuminescence Instruments and Accessories


Spectroelectrochemical Instruments and Accessories


Screen-printed Electrodes


InterDigitated Electrodes


Accessories


Nanomaterials and Electrochemical Reagents


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