Optically Transparent Electrodes Mix (PEDOT, ITO, Gold and Carbon)

Ref. OTEMIX

Optically transparent electrodes (**OTEs**) allow to perform simultaneously spectral and electrochemical measurements directly through the working electrode. **Spectroelectrochemical** techniques can be easily used for obtaining spectra through transparent conductive layers while at the same time an electrochemical experiment is carried out. Different OTEs are available in this mix of references including the most useful transparent working electrodes.

Ref. P10 is based on **PEDOT** [poly(3,4-ethylenedioxythiophene)] as conductive polymer defining a working electrode of 4 mm diameter. Ref. ITO10 has a working electrode made by sputtering of indium, tin and oxygen (**Indium-Tin-Oxide**) in a proper proportion to form an alloy with high transparency and electrical conductivity. Ref. AUTR10 consists on a **thin-layer of gold** that provides enough transparency to be considered a OTE.

Plastic substrate: L33 x W10 x H0.175 mm
Electric contacts: Silver

The electrochemical cell consists of:

Ref. P10	**Ref. ITO10**	**Ref. AUTR10**
Working electrode: PEDOT	*Working electrode:* ITO	*Working electrode:* Gold
Counter electrode: Carbon	*Counter electrode:* Carbon	*Counter electrode:* Carbon
Reference electrode: Silver	*Reference electrode:* Silver	*Reference electrode:* Silver

Ref. **OTEMIX** is commercialised in 40 units packs mixing 10 units of refs. P10, ITO10 and AUTR10. They should be stored at room temperature, protected from light in a dry place.

Also, specific **connectors** that act as an interface between the screen-printed electrode and any potentiostat (refs. DSC-P, CAC-P) and other accessories are available at ***DropSens***.

Related products


SPELEC


TRANSCELL


CAC-P


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RPROBE

Full Catalogue

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