

## ELECTRODE ACCESSORIES & GELS

### Abrasive Pads

Before applying electrodes, abrade the skin lightly with an ELPAD to remove non-conductive skin cells and sensitize skin for optimal adhesion. Each ELPAD package contains 10 abrasive pads.



### Adhesive

Use adhesive tape for attaching Active Electrodes and other devices. Use the preferred tape or BIOPAC's adhesive tape: **TAPE1** single-sided; **TAPE2** double-sided.

**MRI Use:** MR Safe

**TAPE1 Components:**

3M hypoallergenic surgical tape – Acrylic adhesive



### Adhesive Disks

ADD200 series double-sided adhesive collars are used to hold reusable electrodes (EL254/8RT) firmly on the skin surface.

**ADD204** 19 mm outside diameter, use with EL254 and EL254S

**ADD208** 22 mm outside diameter, use with EL258 and EL258S

**MRI Use:** MR Safe

**ADD204/208 Adhesive Disks Components:**

Disks: 3M hypoallergenic medical tape – Acrylic polymer



### Electrode Gels

**CAPGEL16** & Conductive EEG gel for EEG caps. Helps improve impedance and minimize artifacts.

**CAPGEL32** Choose 32 oz. or 16 oz. jar.

**Components:** Water, sodium chloride, Aragum T-1998 (Gum Acacia, Guar Gum, Xanthan Gum), potassium bitartrate (Cream of Tartar), glycerin, methylparaben and propylparaben.

**GEL1** & **GEL100** Non-irritating, hypo-allergenic gel used as a conductant with the EL250 series reusable electrodes. GEL1 = 50 g; GEL100 = 250 g. 5% NaCl (salt) content. 0.85 molar NaCl

**MRI Use:** MR Conditional

**Condition:** Max MR field strength 7T

**MRI Notes** When using with EL250 series electrodes, it's important to completely fill the EL250 series gel reservoir. Incomplete filling of reservoir may result in localized heating of gel at the electrode site.

**GEL100 Components:**

Water, Sodium Chloride, Propylene Glycol, Mineral Oil, Glyceryl Monostearate Polyoxyethelene Stearate, Stearyl Alcohol, Calcium Chloride, Potassium Chloride, Methylparaben, Butylparaben, Propyl Paraben

**GEL101A** Non-irritating, isotonic gel is primarily used as a conductant for electrodermal response recording. Use with TSD203 EDA transducer, SS3LA EDA transducer, EL507 EDA electrodes, EL509 dry electrodes, etc. Each bottle contains 114 g (~4 ounces).

Consists of 0.5% Saline in a neutral base and is the appropriate GEL to use for GSR, EDA, EDR, SCR, and SCL. This electrode paste has an approximate molarity of 0.05M NaCl and is 0.5% Saline; the Saline concentration is adjusted to obtain a final paste molarity of 0.05M NaCl. This particular molarity is recommended by Fowles (1981). Psychophysiology, 18, 232-239

**MRI Use:** MR Conditional

**Condition:** Max MR field strength 7T

**GEL101A Components:**

Distilled water, sodium chloride, Unibase™ cream base (water fatty acids, alcohols, esters, nonionic emulsifiers, glidant) **GEL102** Ten20 Conductive Gel 114 g (~4 ounces). Ten20 is a conductive and adhesive paste specifically formulated for use with reusable (non-disposable) electrodes. Ten20 contains the right balance of adhesiveness and conductivity, enabling electrodes to remain in place while allowing the transmittance of electrical signals. Ten20 is a uniquely washable and non-drying formula.

Do not use too much paste—the size of the area of the paste becomes the effective size of the electrode; this can reduce interelectrode distances and potential differences measured. Wash skin promptly after use. 12.5% NaCl content, 2.15 molar NaCl

**GEL103** Tensive Adhesive Gel, 33 ml. Conductive adhesive gel. This safe, non-flammable, odorless gel is recommended for TENs or ECG to adhere non-adhesive electrodes to the skin.

- Eliminates tape and tape irritation
- Conductive immediately, no need to wait
- Non-flammable, no solvent odor
- Best adhesive gel available
- Hypoallergenic, bacteriostatic, non-irritating
- Water soluble, easily removed with water

**GEL104** SPECTRA 360<sup>®</sup> electrode gel for long-term biopotential recording or electrical stimulus requirements. This salt-free and chloride-free electrically conductive gel is recommended for general-purpose biopotential (non-EDA) measurements. Salt-free characteristics make it particularly suitable for long-term biopotential recording applications and low current level electrical stimulation applications, such as tACS, tDCS, and TENS. Use with BIOPAC's EL509 and EL512 disposable electrodes or EL250 Series reusable electrodes.

Spectra 360<sup>®</sup> differs significantly from all other electrically conductive media; it works by wetting the skin, thereby reducing skin resistance.

- Salt-free, no sodium ion transfer
- Non-irritating, hypoallergenic, bacteriostatic
- Can be used with carbon composition flexible electrodes
- Can be used for ECG, EMG, tDCS, tACS and TENS
- Non-gritty STAY-WET<sup>®</sup> formula allows for prolonged use without re-application
- 250 g (8.5 oz) tube

**MRI Use:** **MR Conditional**

**Condition:** Max MR field strength 7T

**GEL104 Salt-Free Components:**

Water, Propylene Glycol, Mineral Oil, Glyceryl Monostearate, Polyoxyethelene Stearate, Stearyl Alcohol, Methylparaben, Butylparaben, Propyl Paraben

**ELPREP** Skin Preparation Gel 114 grams (~4 oz). Designed for EEG, ECG, EMG, EOG, Cardiac Output and Bioimpedance measurements. This gel is abrasive and should be used with care not to overabrade the skin. It is not recommended for use with electrodes attached to conventional electrical stimulation equipment, such as voltage or current stimulators. Not to be used on subjects with a history of skin allergies to cosmetics and lotions. Topical use only.

Prepare skin and apply small amount to appropriate electrode site by squeezing near tube opening. Gently rub gel into the skin surface. Apply small amount to disc electrode and press into the paste that has been applied to the scalp or other skin surface. Clean with warm water.

## Coban Wrap

Self-adhesive Coban™ wrap can be used to hold electrodes, VMG transducers and fNIR sensors on a subject.

- 3 inch x 5 yard (fully stretched) (75 mm x 4.5 m)
- Latex free self-adherent wrap
- Nonsterile
- Tan



## BSL-ACCPACK

The BSL Accessory Pack includes the consumable items to run 17 BSL Lessons. School bookstores can purchase the BSL Accessory Packs and sell them to students. Includes:

- 100 x EL503 Disposable Electrodes
- 10 x EL507 Disposable EDA (GSR) Electrodes (ten electrodes total)
- 1 x AFT1 Disposable Bacterial Filter
- 1 x AFT2 Disposable Mouthpiece
- 1 x AFT3 Noseclip
- 8 x ELPAD Abrasive Pads



## BSL-ACCPACK-11B

The BSL Accessory Pack 11B includes the consumable items to run 17 BSL Lessons. This pack includes the AFT36 combination bacterial filter/mouthpiece optimized for the newer-model SS11LB airflow transducer. Includes:

- 100 x EL503 Disposable Electrodes
- 10 x EL507 Disposable EDA (GSR) Electrodes (ten electrodes total)
- 1 x AFT36 Disposable Bacterial Filter with Integrated Mouthpiece
- 1 x AFT3 Noseclip
- 8 x ELPAD Abrasive Pads

**NOTE:** BSL-ACCPACK-11B is not compatible with earlier-model SS11L or SS11LA airflow transducers or software versions earlier than BSL 4.1.1. If using earlier airflow transducers or software, order BSL-ACCPACK.

## Alcohol Prep Pad Wipes (ALCPAD, ALCPAD-10)

These Disposable Wipe Prep Pads are sterile, 2-ply non-woven sponge pads saturated with Isopropyl Alcohol and sealed in individual airtight foil packets.

- Affordable
- Convenient Individual Packaging
- 2-Ply Enhances Strength for Cleaning & Disinfecting
- Airtight Poly-Lined Foil Pouches Minimized Dry Pads
- Active Ingredient: Isopropyl Alcohol
- Saturation Level: 70%
- Latex-Free
- Sterile



Quantity options: pack of 200 (order ALCPAD) or pack of 2000 (order ALCPAD-10)