RETeval™ Sensor Strips

Intended Use and Product Description

RETeval sensor strips are skin-contact electrodes intended to be used to measure physiological electric signals with a contact duration of less than 24 hours.

System Function
- The sensor strips do not require sterilization and are not intended to be sterilized.

Instructions for use

Before electrode application

LKC Technologies strongly recommends the use of NuPrep® (sold by LKC, made by Weaver and company, www.dowweaver.com) to prepare the patient’s skin in the electrode contact area. Use of NuPrep will achieve electrical impedance levels comparable to corneal contact electrodes. Alternately, soap and water, or an alcohol wipe may be used but will result in increased impedance. Use alcohol-based products with caution, as the alcohol fumes may cause irritation to the eye. In all cases using an instrument with a high input impedance will improve results.

Electrode application

The RETeval sensor strips are specific for right and left eyes. Erroneous results will occur if the sensor strips are used with the wrong eye. The small side of the sensor strip should be placed on the upper portion of the zygomatic process near each eye, with the end of the sensor strip placed under the center of the eye. The side with the connection tab should be located near the temple. Align the sensor strip such that there is no hair beneath it.

Connection to instrumentation

RETeval device

Use the LKC Sensor strip lead (part number 91-193) to connect the RETeval sensor strip to the device.

Other ERG instruments

Use the LKC Sensor strip to DIN cable (part number 91-201) to connect the sensor strip to your non-RETeval ERG instrumentation according to the wiring information provided in the table below.

<table>
<thead>
<tr>
<th>Sensor Strip electrode position</th>
<th>Cable connector color</th>
<th>Input location on your ERG instrument</th>
</tr>
</thead>
<tbody>
<tr>
<td>Underneath the eye</td>
<td>Red</td>
<td>Positive (+)</td>
</tr>
<tr>
<td>Temple</td>
<td>Black</td>
<td>Negative (-)</td>
</tr>
<tr>
<td>Middle position</td>
<td>Green</td>
<td>Common/ground/right leg drive.</td>
</tr>
</tbody>
</table>

When using two cables to measure the response from both eyes simultaneously, use LKC Vee cable (part number 91-202) to connect both green connectors to the instrument’s common/ground/right leg drive position.

Shelf life

For shelf life and storage information, refer to the labeling on the sensor strip box.

Purchasing

Users may purchase the following items by contacting your local distributor.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>95-068</td>
<td>Sensor strip, quantity 50 pairs</td>
</tr>
<tr>
<td>91-193</td>
<td>Sensor strip lead (The cable that connects the RETeval device to a sensor strip.)</td>
</tr>
<tr>
<td>91-201</td>
<td>Sensor strip to DIN cable (The cable that connects your non-RETeval ERG device to a sensor strip.)</td>
</tr>
<tr>
<td>91-202</td>
<td>Vee cable (A cable that connects 2 male and 1 female safety DIN connectors together, used for testing both eyes simultaneously.)</td>
</tr>
</tbody>
</table>

Thank you for choosing RETeval sensor strips. If you are not completely satisfied or if you have questions or comments, please contact LKC Technologies.

Contact Information

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