

# **ECL<sup>TM</sup>** Mini-camera

## **RPN 2069**

### **Safety warnings and precautions**

**Warning:** For research use only. Not recommended or intended for diagnosis of disease in humans or animals. Do not use internally or externally in humans or animals.

We recommend that this product and components are handled only by those persons who have been trained in laboratory techniques and that it is used in accordance with the principles of good laboratory practice.

As all chemicals should be considered as potentially hazardous, it is advisable when handling chemical reagents to wear suitable protective clothing, such as laboratory overalls, safety glasses and gloves. Care should be taken to avoid contact with skin or eyes. In case of contact with skin or eyes, wash immediately with water.

Note that we recommend that this product is used with Polaroid film.

Please follow the manufacturer's safety data sheet relating to the safe handling and use of this material.

### **Product specifications**

ECL<sup>TM</sup> Mini-camera RPN 2069

Dimensions 200 x 110 x 50mm (l x w x h)

Weight 840g

Supplied with 5 sample boats for blots of up to 52 x 77mm in size.

### **Recommended film**

The ECL Mini-camera incorporates a Polaroid<sup>TM</sup> CB-103 film holder and processing back designed for Polaroid instant 3.25 x 4.24inch (8.5 x 10.5mm) professional eight exposure pack films. Recommended film types for ECL detection are Polaroid Type T667 for routine applications and Type T612 if increased sensitivity is required.

### **Introduction to the ECL Mini-camera**

The ECL Mini-camera is a camera luminometer specifically designed for use with Amersham Biosciences enhanced chemiluminescence systems and in particular Western blots generated on mini-gel apparatus. It is ideal for use on the bench top or in situations where a darkroom is not easily accessible. The luminometer is compact and light-weight, the whole unit being little larger than a pack of Polaroid film, making it truly portable.

## Protocol

1. Load a Polaroid film cartridge into the ECL Mini-camera.

**Note:** For full instructions on loading the film into the Polaroid film holder refer to the full handling instructions included.

2. Ensuring the shutter is closed, remove the lid and the sample boat holder.

3. Carry out immunodetection using an HRP conjugated second antibody and the ECL Western blotting system following the recommended protocols.

Blots should be no larger than 52 x 77mm.

4. After ECL detection place the blots, protein side down, into a clean and dry sample boat. Fit the sample boat into the holder.

**Note:** Alternatively, ECL detection may be carried out in the sample boat. It is important however, that all of the detection reagent is drained off before placing the sample boat into the camera.

5. Place the sample boat and holder into the camera so that they sit on the shutter. A fibre optic 'spot' has been incorporated into the moulding to assist in orientation. The boat holder should be positioned so that the marker is in the top left hand corner.

6. Replace the lid ensuring a light tight seal. When the lid is correctly fitted only limited movement is possible.

**Note:** The lid design ensures light tightness. If leakage does occur check that the lid is fitted properly.

The weight on the lid is essential to provide a flat base to the sample boat, do not remove it.

7. Quickly but carefully, slide open the shutter to expose the film.

**Note:** Exposure times will be dependant on the level of sensitivity required. A 1 minute exposure is a good starting point.

Varying levels of sensitivity can be achieved by using different film types. Refer to recommended film section, page 2.

8. Close the shutter by pushing it back into the camera. This will lift the boat from the film.

## 9. Processing the film

To obtain the recorded image remove the exposed film assembly (comprising negative and positive sheets) out of the camera. This starts the development process.

With the ECL Mini-camera lying on the bench grasp the white tab and pull it straight out of the film holder. This causes a larger yellow/black tab to appear.

**Note:** Do not pull two white tabs in succession.

Grasp the yellow/black tab in the centre and pull straight, at moderate speed, without hesitation, all the way out of the holder.

**Note:** Do not pull the film assembly upwards, away from the bench or from side to side.

The image is now developing. Recommended development times are included with the film.

After the recommended development time, hold the yellow/black tab and separate the print from the negative.

**Note:** Refer to the full handling instructions included for a fuller explanation and trouble shooting guide.

## Products for ECL Western blotting

- **ECL Western blotting detection reagents**

RPN 2106 - Sufficient reagents for blotting 4000cm<sup>2</sup> of

Hybond™ ECL membrane

Detection reagent 1 (250ml)

Detection reagent 2 (250ml)

RPN 2109 - Sufficient reagents for blotting 1000cm<sup>2</sup> of

Hybond ECL membrane

Detection reagent 1 (62.5ml)

Detection reagent 2 (62.5ml)

- **ECL Western blotting analysis system**

RPN 2108 - Sufficient reagents for blotting 1000cm<sup>2</sup> of

Hybond ECL membrane

Contents:

ECL Western blotting reagents

Anti-mouse HRP-conjugated whole antibody (from sheep)

Anti-rabbit HRP-conjugated whole antibody (from donkey)

Blocking reagent

## Related products

- **Horseradish peroxidase conjugated antibodies** - all are double affinity purified and highly species specific for strong binding with minimal background.

- **Hybond ECL** - pure unsupported nitrocellulose for ultimate results in Western blotting applications
- **Hyperfilm™ ECL** - specialist film for maximum sensitivity and detection
- **Hypercassette™ and Hyperscreen™** - a full range of sizes to match Hyperfilm available from stock.
- **Enzymes** - An expanding range of DNA modification and restriction enzymes, including genomic grade enzymes and an exclusive 8-cutter.

For details of these and any of our other products please consult our catalogue or contact your local Amersham Biosciences representative.

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