# Amersham **ECL** gold hybridization buffer

## Product Specification Sheet

### Introduction

#### Product code

RPN3006

#### About

For use with Horseradish Peroxidase-labelled probes, using the ECL™ direct labelling and detection systems. Sufficient for hybridization of 4000 $cm^2$ membrane.

#### Important

Read these instructions carefully before using the products.

#### Intended use

The products are intended for research use only, and shall not be used in any clinical or *in vitro* procedures for diagnostic purposes.

#### Safety

For use and handling of the products in a safe way, refer to the Safety Data Sheets.

#### Storage

Store at 15°C to 25°C. The buffer and blocking agent are stable at 15°C to 25°C for at least twelve months when stored under the recommended conditions.

#### Expiry

See outer packaging.

#### Components

**Hybridization buffer:** 2 x 500 ml

**Blocking reagent:** 2 x 25 g

### Quality control

The ECL gold hybridization buffer is tested by our quality control group using the ECL direct system (RPN3000/3001), to ensure detection of a single copy gene in human genomic DNA blots, representing a minimum sensitivity of 0.5 pg target in 1 µg genomic DNA.

### Preparation of buffer for hybridization

| Step | Action |
|---|---|
| 1 | Take the required amount of hybridization buffer and add solid Sodium Chloride (analytical grade) to a concentration that is most suitable for effective probe hybridization.<br>***Note:***<br>*The optimum concentration may be different for different probes, 0.5 M NaCl generally gives acceptable results.* |
| 2 | Add the blocking agent to a final concentration of 5% (w/v). Immediately mix thoroughly to get the blocking agent into a fine suspension. |
| 3 | Continue mixing at room temperature for 1 hour on a magnetic stirrer or roller mixer, then preheat to 42°C for 0.5–1 hour. |

The buffer is then ready for use. (A few small particles of undissolved blocking agent will not affect the hybridization).

If excess buffer is prepared this should be dispensed into suitable aliquots into sterile plastic containers and stored at -15°C to -30°C. Prepared buffer may be stored for at least three months. Do not store in a frost-free freezer.

### Hybridization

Hybridization should be carried out as described in the protocol booklet supplied with the ECL direct systems.

***Note:*** *Do not exceed a temperature of 42°C during hybridizations.*

### Related products

| | |
|---|---|
| ECL direct nucleic acid labelling and detection systems | |
| Labelling reagent for 5 µg DNA Hybridization buffer and detection reagents sufficient for 2000 $cm^2$ membrane | RPN3000 |
| Labelling reagents for 10 µg DNA<br>Hybridization buffer and detection reagents sufficient for 4000 $cm^2$ membrane<br>ECL direct nucleic acid labelling system | RPN3001 |
| Labelling reagents for 5 µg DNA<br>Hybridization buffer sufficient for 2000 $cm^2$ membrane | RPN3005 |
| ECL detection reagents | |
| Sufficient for 2000 $cm^2$ membrane | RPN3004 |
| Sufficient for 4000 $cm^2$ membrane<br>Hybond™-N+ and Hybond-ECL | RPN2105 |

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