



Product Information Sheet

Dog CYP2B11LR Bactosomes

Catalogue Number: CYP301
Product Description: Dog CYP2B11 and dog CYP-reductase coexpressed in *Escherichia coli*
Amount: 1 nmol cytochrome P450
Storage Buffer: 50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
Storage: Store at -80°C. Avoid frequent temperature changes. Thaw on ice.
Intended Use: For laboratory (research) purposes only.

Batch Number: DC2B11LR001/A
P450 Concentration: 3.7 nmol/ml
Protein Concentration: 12.5 mg/ml
Specific P450 Content: 296 pmol/mg protein
Cytochrome c Reductase Activity: 568 nmol/min/mg protein

¹P450 Activity Data

Activity: Diazepam N-demethylase

²Linear with time up to: 10 min

³Linear with P450 up to: 3.5 pmol/ml

V_{max}: 12 pmol/min/pmol CYP

K_m: 8.4 µM

Approved by _____

Date 6th February, 2019 _____

Notes:

¹Unless otherwise stated, all assays are carried out at 37°C in 50 mM potassium phosphate buffer (pH 7.4) containing 5 mM magnesium chloride and an NADPH generating system [5 mM isocitric acid, 5 µM manganese chloride, 1 mM NADP⁺, 1 U/ml isocitrate dehydrogenase].

²Determined at 5 µM substrate, using a P450 concentration of 2.5 pmol/ml.

³Determined at 5 µM substrate, using an incubation time of 5 min.

Safety Data

The toxicological properties of this reagent have not been investigated. Exercise due care when handling.

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