



Product Information Sheet

Dog CYP2C41LR Bactosomes

Catalogue Number: CYP303
Product Description: Dog CYP2C41 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: INT043E4B
P450 Concentration: 7.6 nmol/ml
Protein Concentration: 26.0 mg/ml
Specific P450 Content: 292 pmol/mg protein
Cytochrome c Reductase Activity: 608 nmol/min/mg protein

¹P450 Activity Data

Activity: Diclofenac 4'-hydroxylase
²Linear with time up to: 60 min
³Linear with P450 up to: 200 pmol/ml
 V_{max} : 0.22 pmol/min/pmol CYP
 K_m : 55 μ M

Approved by _____

Date 17th September 2020

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 glucose 6-phosphate, 1 mM NADP⁺, 1 U/ml glucose 6-phosphate dehydrogenase].

²Determined at 500 μ M substrate, using a P450 concentration of 150 pmol/ml.

³Determined at 500 μ M substrate, using an incubation time of 30 min.

Safety Data

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

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