



Product Information Sheet

Human CYP2C9*2BR Bactosomes

Catalogue Number: CYP042
Product Description: Human CYP2C9.2 (Cys-144) and human CYP-reductase coexpressed in *Escherichia coli*, supplemented with purified human cytochrome *b₅*
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: C2C9*2BR001
P450 Concentration: 6.0 nmol/ml
Cytochrome *b₅* Concentration: 30.1 nmol/ml
Protein Concentration: 17.9 mg/ml
Specific P450 Content: 335 pmol/mg protein
Cytochrome c Reductase Activity: 184 nmol/min/mg protein

¹P450 Activity Data

Activity: Diclofenac 4'-hydroxylase
²Linear with time up to: 20 min
³Linear with P450 up to: 25 pmol/ml
 V_{max} : 15 pmol/min/pmol CYP
 K_m : 2.4 μ M

Approved by _____

Date 12th November, 2012

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 2.5 μ M substrate, using a P450 concentration of 7.5 pmol/ml.

³Determined at 2.5 μ M 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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United States Patent Nos. 5,420,027 or 5,240,831, Canada Patent No. 2100245 and other patents pending.