

PRODUCT INFORMATION SHEET

Rat CYP2A1BLR Bactosomes

Catalogue Number: CYP374
Product Description: Rat CYP2A1 and rat CYP-reductase coexpressed in *Escherichia coli*, supplemented with purified rat 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:	RC2A1BLR001
CYP Concentration:	1.5 nmol/ml
Cytochrome <i>b₅</i> Concentration:	7.7 nmol/ml
Protein Concentration:	14.3 mg/ml
Specific CYP Content:	105 pmol/mg protein
Cytochrome c Reductase Activity:	1434 nmol/min/mg protein

¹CYP Activity Data

Activity measured:	Testosterone 7 α -hydroxylase
² Linear with time up to:	10 min
³ Linear with CYP up to:	3 pmol/ml
V _{max} :	36 pmol/min/pmol CYP
K _m :	0.35 μ M

Approved by _____ 

Date 19th December 2023

Notes

¹Unless otherwise stated, all assays are performed at 37°C in 100 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 1.6 μ M substrate, using a CYP concentration of 1.25 pmol/ml.

³Determined at 1.6 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. This product is being sold for research purposes only.