



## Product Information Sheet

### Pig CYP3A39BR Bactosomes

Catalogue Number: CYP456  
Product Description: Pig CYP3A39 and pig CYP-reductase coexpressed in *Escherichia coli*, supplemented with purified human cytochrome *b<sub>5</sub>*  
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: BINT068E42  
P450 Concentration: 3.1 nmol/ml  
Cytochrome *b<sub>5</sub>* Concentration: 15.6 nmol/ml  
Protein Concentration: 14.0 mg/ml  
Specific P450 Content: 221 pmol/mg protein  
Cytochrome *c* Reductase Activity: 1671 nmol/min/mg protein

#### <sup>1</sup>P450 Activity Data

Activity: Testosterone 6 $\beta$ -hydroxylase

<sup>2</sup>Linear with time up to: 4 min

<sup>3</sup>Linear with P450 up to: 50 pmol/ml

$V_{max}$ : 20 pmol/min/pmol CYP

$K_m$ : 45  $\mu$ M

Approved by \_\_\_\_\_

Date 12<sup>th</sup> August 2021

#### Notes:

<sup>1</sup>Unless otherwise stated, all assays are carried out 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<sup>+</sup>, 1 U/ml glucose 6-phosphate dehydrogenase].

<sup>2</sup>Determined at 32  $\mu$ M substrate, using a P450 concentration of 25 pmol/ml.

<sup>3</sup>Determined at 32  $\mu$ 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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