



## 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: DC2C41LR001  
P450 Concentration: 4.4 nmol/ml  
Protein Concentration: 24.0 mg/ml  
Specific P450 Content: 183 pmol/mg protein  
Cytochrome c Reductase Activity: 342 nmol/min/mg protein

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

Activity: Diclofenac 4'-hydroxylase  
<sup>2</sup>Linear with time up to: 60 min  
<sup>3</sup>Linear with P450 up to: 175 pmol/ml  
 $V_{max}$ : 0.24 pmol/min/pmol CYP  
 $K_m$ : 85  $\mu$ M

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

Date 6<sup>th</sup> March, 2020

#### Notes:

<sup>1</sup>Unless 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<sup>+</sup>, 1 U/ml glucose 6-phosphate dehydrogenase].

<sup>2</sup>Determined at 500  $\mu$ M substrate, using a P450 concentration of 150 pmol/ml.

<sup>3</sup>Determined at 500  $\mu$ 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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