

Certificate of Analysis

Vivid® CYP2B6 Blue Screening Kit, 1 Kit



Part Number: P3019
Lot Number: 1428887
Immediate Storage: -80°C
Shipping Conditions: dry ice

5791 Van Allen Way
 Carlsbad, CA 92008
 Phone: 760.603.7200
 Fax: 760.602.6500
 www.lifetechnologies.com

Components:

Description	Composition	Quantity	Part Number	Lot Number
CYP2B6 BACULOSOMES® Plus Reagent, rHuman	100 mM potassium phosphate (pH 7.4).	0.5 nmol	P3028*	49252
Vivid® BOMCC Substrate	Vivid® BOMCC Substrate, dried under vacuum from acetonitrile.	0.1 mg	P2975	1351681A
Vivid® Regeneration System, 100X	333 mM Glucose-6-phosphate and 30 U/mL Glucose-6-phosphate dehydrogenase in 100 mM Potassium Phosphate Buffer (pH 8.0)	0.5 mL	P2878	1311422A
NADP ⁺ , 10 mM	NADP ⁺ solution, 10 mM, in 100 mM Potassium Phosphate Buffer (pH 8.0)	0.5 mL	P2879	1095745A
Vivid® CYP450 Reaction Buffer I, 2X	Potassium Phosphate Buffer (200 mM, pH 8.0)	50 mL	P2881	1083981D
Vivid® Blue Standard	3-cyano-7-hydroxycoumarin supplied as a lyophilized powder.	0.1 µmol	P2876	1393884A

*See individual COA

Storage and Handling: The performance of this product is guaranteed for 6 months from the date of purchase if stored and handled properly.

Description	Storage and Handling
CYP2B6 BACULOSOMES® Plus Reagent, rHuman	Thaw rapidly in a 37°C water bath. Keep on ice until use. If aliquots are prepared for product storage, volumes less than 50 µL per aliquot are not recommended. Dilutions of Vivid® CYP2B6 Blue Screening Kit components should be prepared on the day of use, never store diluted. If properly stored at -80°C, this product is guaranteed for 6 months from date of purchase.
Vivid® BOMCC Substrate	Store dry substrate at -20°C, and keep protected from light. Once the substrate has been resuspended, store the substrate at -20°C and keep protected from light.
Vivid® Regeneration System, 100X	-80°C
NADP ⁺ , 10 mM	-80°C
Vivid® CYP450 Reaction Buffer I, 2X	+4°C or 20-30°C
Vivid® Blue Standard	Store at -20°C, desiccated and protected from light.

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BACULOSOMES® is a registered trademark of Life Technologies Corporation.

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For Research Use Only. Not for use in diagnostic procedures.

For questions, please contact our Technical Support Team

N. Am Ph#: 800-955-6288 or INTL Ph#: 760-603-7200 Select option 5, ext. 40266 Email: drugdiscoverytech@lifetech.com

Certificate of Analysis

CYP2B6 BACULOSOMES® Plus Reagent, rHuman, 0.5 nmol



Part Number: P3028
Lot Number: 49252
Immediate Storage: -80°C
Shipping Conditions: dry ice

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Description:

Microsomes prepared from insect cells that were infected with baculovirus containing the cDNAs for human CYP2B6, human cytochrome P450 reductase, and human cytochrome b5.

Protein Content:

5.9 mg/mL as determined using the Folin-Lowry Protein Procedure.

Cytochrome P450 Content: 1000 pmol/mL.

Specific Content Cytochrome P450: 170 pmol/mg of total protein.

Cytochrome b₅ Content: 270 pmol/mg of total protein.

Cytochrome c Reductase Activity:

2700 nmol of cytochrome c reduced per minute per milligram of protein.

Storage and Handling:

Thaw rapidly in a 37°C water bath. Keep on ice until use. **If aliquots are prepared for product storage, volumes less than 50 µL per aliquot are not recommended.** Dilutions of CYP2B6 BACULOSOMES® Plus Reagent, rHuman should be prepared on the day of use, **never store diluted.** If properly stored at -80°C, this product is guaranteed for 6 months from date of purchase.

Less than a 20% decrease in 7-ethoxy-4-trifluoromethylcoumarin deethylase activity was observed after the microsomes had undergone 6 freeze-thaw cycles.

Storage Buffer:

100 mM potassium phosphate (pH 7.4).

QUALITY ASSURANCE

Lot Specific Testing:

7-Ethoxy-4-Trifluoromethylcoumarin Deethylase Activity: 7.5 pmol product per min per pmol P450.

A 0.25 mL reaction mixture containing 10 pmol CYP2B6, 1.3 mM NADP⁺, 3.3 mM glucose-6-phosphate, 0.4 U/mL glucose-6-phosphate dehydrogenase, 3.3 mM MgCl₂, and 0.1 mM 7-ethoxy-4-trifluoromethylcoumarin in 50 mM potassium phosphate (pH 7.4) was incubated at 37°C for 15 min. After incubation, the reaction was stopped by the addition of 50 µL 20% trichloroacetic acid and centrifuged (10,000 x g) for 1 minute. 100 µL of the supernatant was added to 1.9 mL of 100 mM Tris (pH 9) and the fluorescence was determined with excitation at 410 nm and emission at 510 nm in a spectrofluorometer. The activity was quantitated by subtracting the fluorescence of the blank and comparison to a standard curve for 7-hydroxy-4-trifluoromethylcoumarin.

Becky. Baker, QA Engineer III

Date: 27/Mar/2014

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CYP2B6 BACULOSOMES® Plus Reagent, rHuman is manufactured by Discovery Labware, Inc., a subsidiary of Corning Incorporated, for Life Technologies Corporation.

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