

# Certificate of Analysis

## CYP3A5 BACULOSOMES® Plus Reagent, rHuman , 0.5 nmol



**Part Number:** P2512  
**Lot Number:** 1729869  
**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 CYP3A5, human cytochrome P450 reductase, and human cytochrome b5.

### Protein Content:

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

**Cytochrome P450 Content:** 1000 pmol/mL.

**Specific Content Cytochrome P450:** 83.33 pmol/mg of total protein.

**Cytochrome b<sub>5</sub> Content:** 1900 pmol/mg of total protein.

### Cytochrome c Reductase Activity:

5200 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 CYP3A5 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.

A minimal decrease in activity was observed after the microsomes had undergone 10 freeze-thaw cycles.

### Storage Buffer:

100 mM potassium phosphate (pH 7.4).

## QUALITY ASSURANCE

### **Lot Specific Testing:**

**Testosterone 6β-Hydroxylase Activity:** 49 pmol product per min per pmol P450.

A 0.5 mL reaction mixture containing 10 pmol CYP3A5, 1.3 mM NADP<sup>+</sup>, 3.3 mM glucose-6-phosphate, 0.4 U/mL glucose-6-phosphate dehydrogenase, 3.3 mM MgCl<sub>2</sub>, and 0.2 mM testosterone in 100 mM potassium phosphate (pH 7.4) was incubated at 37°C for 10 min. After incubation, the reaction was stopped by the addition of 250 µL acetonitrile and centrifuged (10,000 x g) for 3 minutes. 100 µL of the supernatant was injected into a 4.6 x 250 mm 5 µm C18 HPLC column and separated at 45°C with a mobile phase initially of 58% methanol increasing to 62% methanol over 8 min and at a flow rate of 1.0 mL per min. The product was detected by absorbance at 254 nm and quantitated by comparison to the absorbance of a standard curve for 6β-hydroxytestosterone.

Nichole Reaksecker

Date: 17/Nov/2015

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CYP3A5 BACULOSOMES® Plus Reagent, rHuman is manufactured by Discovery Labware, Inc., a subsidiary of Corning Incorporated, for Life Technologies Corporation.

**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](mailto:drugdiscoverytech@lifetech.com)

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