

**Male SpragueDawley (SD) Rat Hepatocytes**

Product Number	HP-DS-02M	Lot Number	JNTU														
Gender	Male	Number of Animal in Pool	10														
Date of Preparation	2015.6	Storage Condition	-150° C														
<b>(1) Cell Viability</b>																	
Specification		Results															
Post-thaw viability by tryphen blue exclusion, >70%		90															
viable cell, >5 million/vial		5.4															
<b>(2) Enzyme Characterization</b>																	
Phenotyping Reaction	Substrate	Enzyme activity (pmole/mg/min)															
	( $\mu$ M)	Mean	SD														
7-hydroxylation CoumarinGlucuronidation	300	67.4	19.2														
Testosterone 6 $\beta$ -hydroxylation	100	56.7	5.81														
<b>(3) <i>In vitro</i> intrinsic clearance</b>																	
Probe Substrate	( $\mu$ M)	T <sub>1/2</sub> (min)	Clint( $\mu$ L/min/10 <sup>6</sup> cells)														
Testosterone	1.0	7.8	89.05														
Verapamil	1.0	TBD	TBD														
<b>(4) Figure</b>																	
<table border="1"> <caption>Data points for Testosterone Parent Depletion</caption> <thead> <tr> <th>Time (min)</th> <th>Parent Depletion (% of Time Zero)</th> </tr> </thead> <tbody> <tr><td>0</td><td>120</td></tr> <tr><td>5</td><td>100</td></tr> <tr><td>30</td><td>10</td></tr> <tr><td>60</td><td>10</td></tr> <tr><td>90</td><td>10</td></tr> <tr><td>120</td><td>10</td></tr> </tbody> </table>				Time (min)	Parent Depletion (% of Time Zero)	0	120	5	100	30	10	60	10	90	10	120	10
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Preparation by	Junhua Fan	Signature	<i>Junhua Fan</i>														
Reviewed by	Yi Sun	Signature	<i>Yi Sun</i>														
Approved by	Yuchang Mao	Signature	<i>yuchang mao</i>														

TBD: To be determined