

Male BAMA Minipig Pig Hepatocytes

| Product Number | LH- BMZ -02M | Lot Number | CCMC | | | | | | | | | | | | | | |
|--|--------------|--|--|-----------------------|-------------|---|-----|----|----|----|----|----|----|----|----|-----|----|
| Gender | Male | Number of Animal in Pool | 2 | | | | | | | | | | | | | | |
| Date of Preparation | 2020.06 | Storage Condition | -150° C | | | | | | | | | | | | | | |
| (1) Cell Viability | | | | | | | | | | | | | | | | | |
| Specification | | Results | | | | | | | | | | | | | | | |
| Post-thaw viability by trypan blue exclusion, >70% | | 82% | | | | | | | | | | | | | | | |
| viable cell, >5million/vial | | 5 million/vial | | | | | | | | | | | | | | | |
| (2) Enzyme Characterization | | | | | | | | | | | | | | | | | |
| Phenotyping Reaction | Substrate | Enzyme activity (pmole/10 ⁶ cells /min) | | | | | | | | | | | | | | | |
| | (μ M) | Mean | SD | | | | | | | | | | | | | | |
| Testosterone 6 β -hydroxylation | 100 | 308 | 2.78 | | | | | | | | | | | | | | |
| 7-hydroxylation Coumarin Glucuronidation | 300 | 444 | 28.7 | | | | | | | | | | | | | | |
| (3) <i>In vitro</i> intrinsic clearance | | | | | | | | | | | | | | | | | |
| Probe Substrate | (μ M) | T _{1/2} (min) | Cl _{int} (μ L/min/10 ⁶ cells) | | | | | | | | | | | | | | |
| Testosterone | 1 | 17.2 | 201 | | | | | | | | | | | | | | |
| <p>Metabolism of Testosterone(1 μM) in CCMC</p> <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <caption>Data points for Testosterone Metabolism in CCMC</caption> <thead> <tr> <th>Incubation Time (min)</th> <th>% remaining</th> </tr> </thead> <tbody> <tr><td>0</td><td>100</td></tr> <tr><td>15</td><td>55</td></tr> <tr><td>30</td><td>45</td></tr> <tr><td>60</td><td>28</td></tr> <tr><td>90</td><td>18</td></tr> <tr><td>120</td><td>12</td></tr> </tbody> </table> | | | | Incubation Time (min) | % remaining | 0 | 100 | 15 | 55 | 30 | 45 | 60 | 28 | 90 | 18 | 120 | 12 |
| Incubation Time (min) | % remaining | | | | | | | | | | | | | | | | |
| 0 | 100 | | | | | | | | | | | | | | | | |
| 15 | 55 | | | | | | | | | | | | | | | | |
| 30 | 45 | | | | | | | | | | | | | | | | |
| 60 | 28 | | | | | | | | | | | | | | | | |
| 90 | 18 | | | | | | | | | | | | | | | | |
| 120 | 12 | | | | | | | | | | | | | | | | |
| Prepared by | Yi Sun | Signature | <i>Yi Sun</i> | | | | | | | | | | | | | | |
| Reviewed by | Zhubing Hao | Signature | <i>Zhubing Hao</i> | | | | | | | | | | | | | | |
| Approved by | Ming Wu | Signature | <i>Ming Wu</i> | | | | | | | | | | | | | | |