|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Enzyme** | **Substrate** | **Kcat (s-1)** | **Vmax (µM/min)** | **Km (µM)** | **Kcat/Km (M-1s-1)** |
| **WT-b1\*****(197 µM)** | **CEP** | **39****35****37** | 2.342.12.22 | 30.0831.6534.85 | **1.3 x 106****1.2 x 106****1.06 x 106** |
| **AMP** |  |  |  |  |
| **CEF** |  |  |  |  |
| **WT-b2****(286 µM)** | **CEP** | **101****72** | 6.064.34 | 38.5840.51 | **2.6 x 106****1.7 x 106** |
| **AMP** |  |  |  |  |
| **CEF** |  |  |  |  |
| **WT-b3****(214 µM)** | **CEP** | **137****141****104** | **8.25****8.5****6.24** | **9.95****10.15****7.52** | **1.37 x 107****1.38 x 107****1.38 x 107** |
| **AMP** |  |  |  |  |
| **CEF** |  |  |  |  |

CEP = Cephalothin; E concentration = 1 nM

AMP = Ampicillin

CEF = Ceftazidime

**WT-b1\* = E was dialyzed at room temperature because cold room failed at night.**

**Enzyme concentration was determined by OD280 and extinction coefficient 71000 M-1cm-1.**

**Kcat = Vmax/Et**

**Lefurgy et al, *Protein Science*, 2007**

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***Goldberg et al., Protein Science 2003***

