

| Subcellular fractions |                             |
|-----------------------|-----------------------------|
| Lot Bos150325         | Batch Release: Jan 25, 2016 |

|   |                       |
|---|-----------------------|
| Species: Bos primigenius taurus<br>Gender: female | Age: 7 years 6 months |
|---|-----------------------|

| Protein content  |                              |
|------------------|------------------------------|
| Liver microsomes | 8 mg/ml in Phosphate buffer  |
| S9               | 20 mg/ml in Phosphate buffer |
| Cytosol          | 20 mg/ml in Phosphate buffer |

| Enzyme assay results |                                |                             |                  |
|----------------------|--------------------------------|-----------------------------|------------------|
| Enzyme               | Assay                          | Enzyme activity (ng/ml*min) |                  |
|                      |                                | S9 fraction                 | liver microsomes |
| CYP1A2               | Phenacetin-O-deethylase        | 4.20                        | 11.57            |
| CYP2C9               | Diclofenac 4'-hydroxylase      | 9.23                        | 33.37            |
| CYP2C19              | Omeprazol 5'-hydroxylase       | 1.43                        | 6.77             |
| CYP2D6               | Dextromethorphan-O-demethylase | 1.06                        | 4.42             |
| CYP3A4               | Midazolam 1'-hydroxylase       | 0.45                        | 2.38             |

Note: Activity assays were performed at PRIMACYT GmbH. The assays were conducted at 1 mg/ml protein in 0.1 M Phosphate buffer with NADPH generating system for 15 min at 37 °C.

