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| --- | --- | --- |
|  | **Concentration in each well** | **Typical extract volume (uL)** |
| **APX** | 50mM KPO4 Buffer pH 7.6 + 0,25mM Ascorbate + 0,5mM H2O2 | 5-25 |
| **CAT** | 50mM KPO4 Buffer pH 7 + 0,001% Antifoam + 100mM H2O2 | 5-25 |
| **DHAR** | 100mM KPO4 Buffer pH 6,5 + 5mM Glutathione reduced (GSH) + 0,2mM Dehydroascorbic acid (DHA) | 5-25 |
| **GR** | 100mM Tris HCl pH 7.8 + 0,2mM NADPH + 0,6mM Glutathione oxidized (GSSG) | 5-25 |
| **GST** | 100mM KPO4 Buffer pH 7,4 + 1mM Glutathione reduced (GSH) + 1mM 2,4-Dinitrochlorobenzene (CDNB) | 5-25 |
| **MDHAR** | 50mM KPO4 Buffer pH 7,2 + 0,25mM NADH + 1U/mL Ascorbic acid Oxidase (AAO) + 2mM Ascorbate | 5-25 |
| **POX, cwPOX** | 100mM KPO4 Buffer pH 7 + 2mM Guaiacol + 0,15mM H2O2 | 1-10 |
| **SOD** | 50mM KPO4 Buffer pH 7,8 + 0,1mM EDTA + 0,05mM Cyt c + 10mM Xantine | 1-10 |

Table S1: **Experimental setup of the chemicals used in each enzymatic assay**. In cases where the extract volume added was smaller than 25uL, buffer was added to reach a total extraction volume of 25uL in each well. In every well, the total volume of the reaction was 160uL.