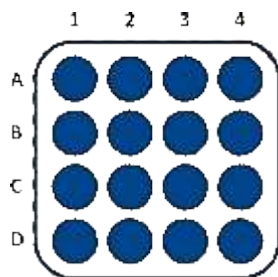


Kit Array Components



| Position | Label | Quantity | Chemical | Amount |
|----------|--|----------|---|---|
| A01 | Ir/Ni-dtbbpy/Cs ₂ CO ₃ | 2 | Ir cat 1 NiCl ₂ -glyme Cs ₂ CO ₃ dtbbpy | 0.1 μmol 0.5 μmol 15.0 μmol 0.5 μmol |
| A02 | Ir/Ni-dtbbpy/K ₃ PO ₄ | 2 | Ir cat 1 NiCl ₂ -glyme dtbbpy K ₃ PO ₄ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| A03 | Ir/Ni-dtbbpy/K ₂ HPO ₄ | 2 | Ir cat 1 NiCl ₂ -glyme dtbbpy K ₂ HPO ₄ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| A04 | Ir/Ni-dtbbpy/K ₂ CO ₃ | 2 | Ir cat 1 NiCl ₂ -glyme dtbbpy K ₂ CO ₃ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| B01 | Ir/Ni-bphen/Cs ₂ CO ₃ | 2 | Ir cat 1 NiCl ₂ -glyme bphen Cs ₂ CO ₃ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| B02 | Ir/Ni-bphen/K ₃ PO ₄ | 2 | Ir cat 1 NiCl ₂ -glyme bphen K ₃ PO ₄ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| B03 | Ir/Ni-bphen/K ₂ HPO ₄ | 2 | Ir cat 1 NiCl ₂ -glyme bphen K ₂ HPO ₄ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| B04 | Ir/Ni-bphen/K ₂ CO ₃ | 2 | Ir cat 1 NiCl ₂ -glyme bphen K ₂ CO ₃ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |

| | | | | |
|-----|--|---|---|---|
| C01 | Ir/Ni-(MeO) ₂ bpy/Cs ₂ CO ₃ | 2 | Ir cat 1 NiCl ₂ -glyme (MeO) ₂ bpy Cs ₂ CO ₃ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| C02 | Ir/Ni-(MeO) ₂ bpy/K ₃ PO ₄ | 2 | Ir cat 1 NiCl ₂ -glyme (MeO) ₂ bpy K ₃ PO ₄ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| C03 | Ir/Ni-(MeO) ₂ bpy/K ₂ HPO ₄ | 2 | Ir cat 1 NiCl ₂ -glyme (MeO) ₂ bpy K ₂ HPO ₄ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| C04 | Ir/Ni-(MeO) ₂ bpy/K ₂ CO ₃ | 2 | Ir cat 1 NiCl ₂ -glyme (MeO) ₂ bpy K ₂ CO ₃ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| D01 | Ir/Ni-biox/Cs ₂ CO ₃ | 2 | Ir cat 1 NiCl ₂ -glyme BIOX Cs ₂ CO ₃ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| D02 | Ir/Ni-biox /K ₃ PO ₄ | 2 | Ir cat 1 NiCl ₂ -glyme BIOX K ₃ PO ₄ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| D03 | Ir/Ni-biox/K ₂ HPO ₄ | 2 | Ir cat 1 NiCl ₂ -glyme BIOX K ₂ HPO ₄ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |
| D04 | Ir/Ni-biox/K ₂ CO ₃ | 2 | Ir cat 1 NiCl ₂ -glyme BIOX K ₂ CO ₃ | 0.1 μmol 0.5 μmol 0.5 μmol 15.0 μmol |

Reagents/ Solvents

| Description | Quantity | Amount |
|-------------|----------|--------|
|-------------|----------|--------|

Reagent Information

| Reagent | CAS | MW |
|---------|-----|----|
|---------|-----|----|

| | | |
|---------------------------------|-------------|----------|
| (MeO) ₂ bpy | 17217-57-1 | 216.00 |
| Cs ₂ CO ₃ | 534-17-8 | 325.82 |
| K ₂ CO ₃ | 584-08-7 | 138.00 |
| K ₂ HPO ₄ | 7758-11-4 | 174.18 |
| K ₃ PO ₄ | 7778-53-2 | 212.27 |
| NiCl ₂ -glyme | 29046-78-4 | 220.00 |
| BIOX | 133463-88-4 | 320.00 |
| bphen | 1662-01-7 | 332.00 |
| dtbbpy | 72914-19-3 | 268.00 |
| Ir cat 1 | 870987-63-6 | 1,121.91 |