Four Treatments

Four-plex system

4 Blocks and 12 Phase 1 Experimental units

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Run | Tag | | | |
| 114 | 115 | 116 | 117 |
| 1 | *3Ib* | *1Cd* | *2Fa* | *4Lc* |
| 2 | *1Cd* | *3Ib* | *4Lc* | *2Fa* |
| 3 | *3Ha* | *1Bc* | *4Kb* | *2Ed* |
| 4 | *1Bc* | *3Ha* | *2Ed* | *4Kb* |
| 5 | *3Gd* | *1Ab* | *2Dc* | *4Ja* |
| 6 | *1Ab* | *3Gd* | *4Ja* | *2Dc* |

Eight-plex system

4 Blocks and 12 Phase 1 Experimental units

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Run | Tag | | | | | | | |
| 113 | 114 | 115 | 116 | 117 | 118 | 119 | 121 |
| 1 | *1Cd* | *1Bc* | *2Ed* | *2Dc* | *3Ib* | *3Ha* | *4Kb* | *4Ja* |
| 2 | *1Bc* | *1Cd* | *2Dc* | *2Ed* | *3Ha* | *3Ib* | *4Ja* | *4Kb* |
| 3 | *1Ab* | *1Ab* | *2Fa* | *2Fa* | *3Gd* | *3Gd* | *4Lc* | *4Lc* |

Five Treatments

Four-plex system

5 Blocks and 20 Phase 1 Experimental units

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Run | Tag | | | |
| 114 | 115 | 116 | 117 |
| 1 | *1Bc* | *1Ab* | *1De* | *1Cd* |
| 2 | *1Ab* | *1Bc* | *1Cd* | *1De* |
| 3 | *2Ge* | *2Ha* | *2Ec* | *2Fd* |
| 4 | *2Ha* | *2Ge* | *2Fd* | *2Ec* |
| 5 | *3Ka* | *3Id* | *3Lb* | *3Je* |
| 6 | *3Id* | *3Ka* | *3Je* | *3Lb* |
| 7 | *4Pc* | *4Me* | *4Ob* | *4Na* |
| 8 | *4Me* | *4Pc* | *4Na* | *4Ob* |
| 9 | *5Td* | *5Rb* | *5Sc* | *5Qa* |
| 10 | *5Rb* | *5Td* | *5Qa* | *5Sc* |

Eight-plex system

5 Blocks and 20 Phase 1 Experimental units

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Run | Tag | | | | | | | |
| 113 | 114 | 115 | 116 | 117 | 118 | 119 | 121 |
| 1 | *1Cd* | *2Ec* | *1De* | *2Ha* | *1Bc* | *2Ge* | *2Fd* | *1Ab* |
| 2 | *2Ec* | *1Cd* | *2Ha* | *1De* | *2Ge* | *1Bc* | *1Ab* | *2Fd* |
| 3 | *4Na* | *3Je* | *3Lb* | *4Pc* | *4Ob* | *3Id* | *3Ka* | *4Me* |
| 4 | *3Je* | *4Na* | *4Pc* | *3Lb* | *3Id* | *4Ob* | *4Me* | *3Ka* |
| 5 | *5Rb* | *5Rb* | *5Td* | *5Td* | *5Qa* | *5Qa* | *5Sc* | *5Sc* |

Six Treatments

Four-plex system

6 Blocks and 30 Phase 1 Experimental units

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Run | Tag | | | |
| 114 | 115 | 116 | 117 |
| 1 | *2AJa* | *2AIf* | *5AXc* | *5AYd* |
| 2 | *2AIf* | *2AJa* | *5AYd* | *5AXc* |
| 3 | *1ADe* | *2AGd* | *4ASb* | *5AVa* |
| 4 | *2AGd* | *1ADe* | *5AVa* | *4ASb* |
| 5 | *1ABc* | *1ACd* | *5AWb* | *5AUf* |
| 6 | *1ACd* | *1ABc* | *5AUf* | *5AWb* |
| 7 | *2AFc* | *2AHe* | *4ARa* | *4AQf* |
| 8 | *2AHe* | *2AFc* | *4AQf* | *4ARa* |
| 9 | *1AAb* | *1AEf* | *4APe* | *4ATc* |
| 10 | *1AEf* | *1AAb* | *4ATc* | *4APe* |
| 11 | *3ANa* | *3AMf* | *6BDe* | *6BAb* |
| 12 | *3AMf* | *3ANa* | *6BAb* | *6BDe* |
| 13 | *3AOb* | *3AKd* | *6AZa* | *6BBc* |
| 14 | *3AKd* | *3AOb* | *6BBc* | *6AZa* |
| 15 | *3ALe* | *3ALe* | *6BCd* | *6BCd* |

Seven Treatments

Four-plex system

7 Blocks and 28 Phase 1 Experimental units

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Run | Tag | | | |
| 114 | 115 | 116 | 117 |
| 1 | *1AAd* | *1ACf* | *1ADg* | *1ABe* |
| 2 | *1ACf* | *1AAd* | *1ABe* | *1ADg* |
| 3 | *2AHg* | *2AEb* | *2AFc* | *2AGf* |
| 4 | *2AEb* | *2AHg* | *2AGf* | *2AFc* |
| 5 | *3AKd* | *3ALe* | *3AIb* | *3AJc* |
| 6 | *3ALe* | *3AKd* | *3AJc* | *3AIb* |
| 7 | *4APg* | *4ANc* | *4AOe* | *4AMa* |
| 8 | *4ANc* | *4APg* | *4AMa* | *4AOe* |
| 9 | *5ATf* | *5ARc* | *5ASd* | *5AQa* |
| 10 | *5ARc* | *5ATf* | *5AQa* | *5ASd* |
| 11 | *6AUa* | *6AWe* | *6AVb* | *6AXf* |
| 12 | *6AWe* | *6AUa* | *6AXf* | *6AVb* |
| 13 | *7AZb* | *7AYa* | *7BBg* | *7BAd* |
| 14 | *7AYa* | *7AZb* | *7BAd* | *7BBg* |

7 Blocks and 42 Phase 1 Experimental units

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Run | Tag | | | |
| *114* | *115* | *116* | *117* |
| 1 | *2AJf* | *2AKg* | *1ABc* | *1ACd* |
| 2 | *2AKg* | *2AJf* | *1ACd* | *1ABc* |
| 3 | *1AEf* | *1AAb* | *1AFg* | *2AIe* |
| 4 | *1AAb* | *1AEf* | *2AIe* | *1AFg* |
| 5 | *2AGc* | *1ADe* | *2AHd* | *2ALa* |
| 6 | *1ADe* | *2AGc* | *2ALa* | *2AHd* |
| 7 | *4AVa* | *3ARb* | *3APg* | *4ASe* |
| 8 | *3ARb* | *4AVa* | *4ASe* | *3APg* |
| 9 | *3ANe* | *3AMd* | *3AOf* | *4AWb* |
| 10 | *3AMd* | *3ANe* | *4AWb* | *3AOf* |
| 11 | *3AQa* | *4AUg* | *4ATf* | *4AXc* |
| 12 | *4AUg* | *3AQa* | *4AXc* | *4ATf* |
| 13 | *5BDd* | *6BGb* | *6BHc* | *5AZg* |
| 14 | *6BGb* | *5BDd* | *5AZg* | *6BHc* |
| 15 | *6BEg* | *6BJe* | *6BId* | *5BAa* |
| 16 | *6BJe* | *6BEg* | *5BAa* | *6BId* |
| 17 | *6BFa* | *5BCc* | *5AYf* | *5BBb* |
| 18 | *5BCc* | *6BFa* | *5BBb* | *5AYf* |
| 19 | *7BNd* | *7BPf* | *7BLb* | *7BKa* |
| 20 | *7BPf* | *7BNd* | *7BKa* | *7BLb* |
| 21 | *7BMc* | *7BMc* | *7BOe* | *7BOe* |

Eight-plex system

7 Blocks and 28 Phase 1 Experimental units

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Run | Tag | | | | | | | |
| 113 | 114 | 115 | 116 | 117 | 118 | 119 | 121 |
| 1 | *2AGf* | *1ABe* | *1ADg* | *2AEb* | *1ACf* | *2AHg* | *2AFc* | *1AAd* |
| 2 | *1ABe* | *2AGf* | *2AEb* | *1ADg* | *2AHg* | *1ACf* | *1AAd* | *2AFc* |
| 3 | *4APg* | *3AJc* | *3AKd* | *4AOe* | *3ALe* | *4ANc* | *4AMa* | *3AIb* |
| 4 | *3AJc* | *4APg* | *4AOe* | *3AKd* | *4ANc* | *3ALe* | *3AIb* | *4AMa* |
| 5 | *5AQa* | *6AVb* | *5ARc* | *6AXf* | *5ASd* | *6AUa* | *5ATf* | *6AWe* |
| 6 | *6AVb* | *5AQa* | *6AXf* | *5ARc* | *6AUa* | *5ASd* | *6AWe* | *5ATf* |
| 7 | *7BAd* | *7BAd* | *7AYa* | *7AYa* | *7AZb* | *7AZb* | *7BBg* | *7BBg* |

Eight Treatments

Four-plex system

8 Blocks and 56 Phase 1 Experimental units

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Run | Tag | | | |
| 114 | 115 | 116 | 117 |
| 1 | *2AIc* | *2AKe* | *6BJa* | *6BMd* |
| 2 | *2AKe* | *2AIc* | *6BMd* | *6BJa* |
| 3 | *2ANh* | *2ALf* | *5BCa* | *5BHg* |
| 4 | *2ALf* | *2ANh* | *5BHg* | *5BCa* |
| 5 | *1ADe* | *1AFg* | *6BKb* | *6BPh* |
| 6 | *1AFg* | *1ADe* | *6BPh* | *6BKb* |
| 7 | *2AJd* | *1AEf* | *6BOg* | *5BDb* |
| 8 | *1AEf* | *2AJd* | *5BDb* | *6BOg* |
| 9 | *2AMg* | *1AGh* | *5BFd* | *6BLc* |
| 10 | *1AGh* | *2AMg* | *6BLc* | *5BFd* |
| 11 | *1ABc* | *2AHa* | *5BIh* | *6BNe* |
| 12 | *2AHa* | *1ABc* | *6BNe* | *5BIh* |
| 13 | *1ACd* | *1AAb* | *5BEc* | *5BGf* |
| 14 | *1AAb* | *1ACd* | *5BGf* | *5BEc* |
| 15 | *3ASf* | *4BBh* | *8BXa* | *7BTd* |
| 16 | *4BBh* | *3ASf* | *7BTd* | *8BXa* |
| 17 | *4AZf* | *4AXc* | *7BUe* | *7BWh* |
| 18 | *4AXc* | *4AZf* | *7BWh* | *7BUe* |
| 19 | *3AOa* | *4AYe* | *7BVf* | *8BYb* |
| 20 | *4AYe* | *3AOa* | *8BYb* | *7BVf* |
| 21 | *3ATg* | *3ARe* | *8CAd* | *8CCf* |
| 22 | *3ARe* | *3ATg* | *8CCf* | *8CAd* |
| 23 | *4BAg* | *3APb* | *8CBe* | *7BSc* |
| 24 | *3APb* | *4BAg* | *7BSc* | *8CBe* |
| 25 | *3AUh* | *3AQd* | *7BRb* | *7BQa* |
| 26 | *3AQd* | *3AUh* | *7BQa* | *7BRb* |
| 27 | *4AWb* | *4AVa* | *8BZc* | *8CDg* |
| 28 | *4AVa* | *4AWb* | *8CDg* | *8BZc* |

Eight-plex system

8 Blocks and 56 Phase 1 Experimental units

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Run | Tag | | | | | | | |
| 113 | 114 | 115 | 116 | 117 | 118 | 119 | 121 |
| 1 | *1AGh* | *2AJe* | *3ARg* | *4AZa* | *5BCf* | *6BNc* | *7BUd* | *8BYb* |
| 2 | *2AJe* | *1AGh* | *4AZa* | *3ARg* | *6BNc* | *5BCf* | *8BYb* | *7BUd* |
| 3 | *2AKf* | *1ACd* | *4BAb* | *3APe* | *6BJg* | *5BEh* | *7BTc* | *8BXa* |
| 4 | *1ACd* | *2AKf* | *3APe* | *4BAb* | *5BEh* | *6BJg* | *8BXa* | *7BTc* |
| 5 | *1AAb* | *2AMh* | *4BBc* | *3ATa* | *5BId* | *6BPe* | *8CDg* | *7BWf* |
| 6 | *2AMh* | *1AAb* | *3ATa* | *4BBc* | *6BPe* | *5BId* | *7BWf* | *8CDg* |
| 7 | *2ANa* | *1ABc* | *4AXg* | *3AQf* | *6BKh* | *5BGb* | *7BVe* | *8CAd* |
| 8 | *1ABc* | *2ANa* | *3AQf* | *4AXg* | *5BGb* | *6BKh* | *8CAd* | *7BVe* |
| 9 | *2AId* | *1ADe* | *3AUb* | *4AWf* | *6BLa* | *5BDg* | *7BQh* | *8BZc* |
| 10 | *1ADe* | *2AId* | *4AWf* | *3AUb* | *5BDg* | *6BLa* | *8BZc* | *7BQh* |
| 11 | *1AEf* | *2ALg* | *3AOd* | *4AYh* | *5BHc* | *6BMb* | *8CBe* | *7BRa* |
| 12 | *2ALg* | *1AEf* | *4AYh* | *3AOd* | *6BMb* | *5BHc* | *7BRa* | *8CBe* |
| 13 | *2AHc* | *1AFg* | *3ASh* | *4AVe* | *5BFa* | *6BOd* | *7BSb* | *8CCf* |
| 14 | *1AFg* | *2AHc* | *4AVe* | *3ASh* | *6BOd* | *5BFa* | *8CCf* | *7BSb* |