

**Supporting Information Table 2. Results of cationic metabolites at T<sub>-0.5</sub> *B. subtilis* 168 cells by CE-MS**

From molecular weight, 13C contributions<sup>25</sup> and LIGAND database<sup>22</sup>, compound names are designated in parentheses and estimated formulas ranking first are listed.

| Compound      | Identified, estimated compound name or formula | m/z | MT     | MT/MT(IS) | Area     | Area/Area(IS) |
|---------------|--|-----|--------|-----------|----------|---------------|
| UC70, 0.6628  |  | 70  | 11.121 | 0.6628    | 844      | 0.0038        |
| UC70, 0.9052  |  | 70  | 15.188 | 0.9052    | 23911    | 0.1065        |
| UC71, 0.4903  | 3-Aminopropionitrile                           | 71  | 8.226  | 0.4903    | 11664    | 0.0520        |
| UC72, 0.8425  |  | 72  | 14.136 | 0.8425    | 29751    | 0.1326        |
| UC74, 0.5261  | Methylguanidine                                | 74  | 8.827  | 0.5261    | 58391    | 0.2602        |
| UC74, 0.5451  |  | 74  | 9.145  | 0.5451    | 12824    | 0.0571        |
| UC74, 0.5967  |  | 74  | 10.011 | 0.5967    | 29295    | 0.1305        |
| UC74, 0.8822  |  | 74  | 14.801 | 0.8822    | 21075    | 0.0939        |
| UC74, 0.9673  |  | 74  | 16.229 | 0.9673    | 9482     | 0.0422        |
| UC75, 1.7757  |  | 75  | 29.792 | 1.7757    | 547929   | 2.4413        |
| UC76, 0.5610  | Isopropanolamine                               | 76  | 9.412  | 0.5610    | 3653     | 0.0163        |
| UC76, 0.7037  | Gly  | 76  | 11.807 | 0.7037    | 32737    | 0.1459        |
| UC77, 0.4660  |  | 77  | 7.818  | 0.4660    | 15904    | 0.0709        |
| UC79, 0.3506  |  | 79  | 5.883  | 0.3506    | 3128     | 0.0139        |
| UC80, 1.7766  |  | 80  | 29.807 | 1.7766    | 2238     | 0.0100        |
| UC81, 1.7775  |  | 81  | 29.823 | 1.7775    | 6493     | 0.0289        |
| UC83, 0.4658  |  | 83  | 7.816  | 0.4658    | 7090     | 0.0316        |
| UC83, 1.7081  |  | 83  | 28.659 | 1.7081    | 16151    | 0.0720        |
| UC84, 0.9006  | (Piperidine)                                   | 84  | 15.111 | 0.9006    | 8253     | 0.0368        |
| UC84, 0.9082  |  | 84  | 15.238 | 0.9082    | 173552   | 0.7733        |
| UC85, 0.3427  |  | 85  | 5.75   | 0.3427    | 1156     | 0.0051        |
| UC85, 1.7786  |  | 85  | 29.842 | 1.7786    | 13492    | 0.0601        |
| UC86, 0.4244  |  | 86  | 7.121  | 0.4244    | 4592     | 0.0205        |
| UC86, 0.6198  |  | 86  | 10.399 | 0.6198    | 4840     | 0.0216        |
| UC86, 0.8583  |  | 86  | 14.401 | 0.8583    | 16954    | 0.0755        |
| UC86, 0.8668  |  | 86  | 14.543 | 0.8668    | 41439    | 0.1846        |
| UC87, 1.7580  |  | 87  | 29.495 | 1.7580    | 108036   | 0.4814        |
| UC88, 0.5636  |  | 88  | 9.456  | 0.5636    | 26916    | 0.1199        |
| UC88, 0.7708  |  | 88  | 12.932 | 0.7708    | 11359    | 0.0506        |
| UC88, 0.9672  |  | 88  | 16.227 | 0.9672    | 10522    | 0.0469        |
| UC90, 0.6230  | $\beta$ -Ala                                   | 90  | 10.453 | 0.6230    | 4069     | 0.0181        |
| UC90, 0.6581  |  | 90  | 11.042 | 0.6581    | 4279     | 0.0191        |
| UC90, 0.7485  |  | 90  | 12.558 | 0.7485    | 4585     | 0.0204        |
| UC90, 0.7611  | Ala  | 90  | 12.77  | 0.7611    | 377498   | 1.6820        |
| UC91, 0.4659  |  | 91  | 7.817  | 0.4659    | 25008    | 0.1114        |
| UC92, 0.7607  |  | 92  | 12.763 | 0.7607    | 2632     | 0.0117        |
| UC92, 1.7743  |  | 92  | 29.77  | 1.7743    | 4681     | 0.0209        |
| UC93, 0.3535  |  | 93  | 5.931  | 0.3535    | 4957     | 0.0221        |
| UC93, 0.4675  |  | 93  | 7.844  | 0.4675    | 1365     | 0.0061        |
| UC93, 1.7758  |  | 93  | 29.794 | 1.7758    | 1337590  | 5.9597        |
| UC95, 0.3449  | (N-Methylputrescine)                           | 95  | 5.786  | 0.3449    | 37046    | 0.1651        |
| UC95, 0.4070  |  | 95  | 6.829  | 0.4070    | 1027     | 0.0046        |
| UC97, 0.3450  |  | 97  | 5.789  | 0.3450    | 19989    | 0.0891        |
| UC97, 0.6121  |  | 97  | 10.27  | 0.6121    | 2718     | 0.0121        |
| UC98, 0.7040  |  | 98  | 11.811 | 0.7040    | 2332     | 0.0104        |
| UC99, 0.4414  |  | 99  | 7.388  | 0.4414    | 14450    | 0.0636        |
| UC100, 0.6522 | Succinimide                                    | 100 | 10.916 | 0.6522    | 7885     | 0.0347        |
| UC101, 0.4799 |  | 101 | 8.032  | 0.4799    | 9665     | 0.0426        |
| UC101, 0.8993 |  | 101 | 15.052 | 0.8993    | 7939     | 0.0350        |
| UC102, 0.8818 |  | 102 | 14.758 | 0.8818    | 27625    | 0.1217        |
| UC102, 0.9067 | C4H7NO2  | 102 | 15.176 | 0.9067    | 289000   | 1.2729        |
| UC103, 0.4236 | Cadaverine                                     | 103 | 7.089  | 0.4236    | 16930    | 0.0746        |
| UC103, 0.4797 |  | 103 | 8.029  | 0.4797    | 1613     | 0.0071        |
| UC103, 0.7188 |  | 103 | 12.031 | 0.7188    | 2893     | 0.0127        |
| UC103, 1.7799 |  | 103 | 29.791 | 1.7799    | 52453    | 0.2310        |
| UC104, 0.5830 | C4H9NO2  | 104 | 9.758  | 0.5830    | 260845   | 1.1489        |
| UC104, 0.6137 |  | 104 | 10.272 | 0.6137    | 3301     | 0.0145        |
| UC104, 0.6353 |  | 104 | 10.633 | 0.6353    | 4712     | 0.0208        |
| UC104, 0.6517 | GABA   | 104 | 10.908 | 0.6517    | 9427     | 0.0415        |
| UC104, 0.8119 |  | 104 | 13.588 | 0.8119    | 5682     | 0.0250        |
| UC104, 0.8975 | $\alpha$ -Aminoisobutyrate                     | 104 | 15.021 | 0.8975    | 4463     | 0.0197        |
| UC104, 0.9168 | N,N-Dimethylglycine                            | 104 | 15.345 | 0.9168    | 15162    | 0.0668        |
| UC105, 0.4652 |  | 105 | 7.786  | 0.4652    | 41753    | 0.1839        |
| UC106, 0.6481 | Diethanolamine                                 | 106 | 10.848 | 0.6481    | 36309    | 0.1599        |
| UC106, 0.84   | Ser  | 106 | 14.059 | 0.8400    | 66172    | 0.2915        |
| UC108, 0.5701 |  | 108 | 9.542  | 0.5701    | 2974     | 0.0131        |
| UC109, 0.3447 | (phenylenediamine)                             | 109 | 5.769  | 0.3447    | 112417   | 0.4951        |
| UC109, 1.7696 |  | 109 | 29.617 | 1.7696    | 103174   | 0.4544        |
| UC110, 1.7813 |  | 110 | 29.813 | 1.7813    | 13709200 | 60.3815       |
| UC112, 0.4063 |  | 112 | 6.8    | 0.4063    | 32253    | 0.1421        |
| UC112, 0.6156 | Cytosine                                       | 112 | 10.303 | 0.6156    | 2949     | 0.0130        |
| UC112, 0.7607 |  | 112 | 12.732 | 0.7607    | 24850    | 0.1095        |
| UC112, 1.7789 |  | 112 | 29.773 | 1.7789    | 600390   | 2.6444        |
| UC113, 0.3812 |  | 113 | 6.38   | 0.3812    | 7406     | 0.0326        |
| UC113, 0.6198 |  | 113 | 10.374 | 0.6198    | 5738     | 0.0253        |
| UC114, 0.6194 | Creatinine                                     | 114 | 10.367 | 0.6194    | 1655780  | 7.2928        |
| UC115, 0.4801 |  | 115 | 8.035  | 0.4801    | 34130    | 0.1503        |
| UC115, 0.6450 |  | 115 | 10.795 | 0.6450    | 9079     | 0.0400        |
| UC115, 1.7758 |  | 115 | 29.722 | 1.7758    | 7687240  | 33.8581       |
| UC116, 0.6196 |  | 116 | 10.37  | 0.6196    | 7857     | 0.0346        |
| UC116, 0.6789 |  | 116 | 11.363 | 0.6789    | 3327     | 0.0147        |
| UC116, 0.9048 | Pro  | 116 | 15.143 | 0.9048    | 7        | 0.0000        |

|               |   |     |        |        |         |         |
|---------------|---|-----|--------|--------|---------|---------|
| UC116, 0.9665 |   | 116 | 16.177 | 0.9665 | 7805    | 0.0344  |
| UC117, 0.4801 |   | 117 | 8.035  | 0.4801 | 4583    | 0.0202  |
| UC117, 0.9431 | (5-Aminopentanamide)                    | 117 | 15.785 | 0.9431 | 31995   | 0.1409  |
| UC117, 1.7795 |   | 117 | 29.783 | 1.7795 | 37910   | 0.1670  |
| UC118, 0.6962 | Guanidinoacetate                        | 118 | 11.653 | 0.6962 | 11896   | 0.0524  |
| UC118, 0.8427 | Val                                     | 118 | 14.105 | 0.8427 | 251271  | 1.1067  |
| UC118, 0.9441 |   | 118 | 15.802 | 0.9441 | 9143730 | 40.2731 |
| UC120, 0.8471 | L-Homoserine                            | 120 | 14.178 | 0.8471 | 73657   | 0.3244  |
| UC120, 0.8818 | Thr                                     | 120 | 14.759 | 0.8818 | 355593  | 1.5662  |
| UC120, 0.9412 |   | 120 | 15.753 | 0.9412 | 54931   | 0.2419  |
| UC121, 0.4653 |   | 121 | 7.788  | 0.4653 | 6372    | 0.0281  |
| UC121, 0.7005 | Purine                                  | 121 | 11.724 | 0.7005 | 22665   | 0.0998  |
| UC121, 1.7133 |   | 121 | 28.676 | 1.7133 | 50334   | 0.2217  |
| UC122, 0.7023 | $\beta$ -Phenylethylamine               | 122 | 11.754 | 0.7023 | 4736    | 0.0209  |
| UC122, 0.8809 |   | 122 | 14.744 | 0.8809 | 2585    | 0.0114  |
| UC123, 0.3441 |   | 123 | 5.76   | 0.3441 | 343867  | 1.5145  |
| UC123, 0.6279 |   | 123 | 10.509 | 0.6279 | 23295   | 0.1026  |
| UC124, 0.8414 |   | 124 | 14.083 | 0.8414 | 20536   | 0.0904  |
| UC125, 0.3448 |   | 125 | 5.771  | 0.3448 | 44550   | 0.1962  |
| UC126, 0.6516 |   | 126 | 10.905 | 0.6516 | 3368    | 0.0148  |
| UC126, 0.7027 | 5-Methylcytosine                        | 126 | 11.761 | 0.7027 | 8215    | 0.0362  |
| UC126, 1.7785 | Taurine                                 | 126 | 29.766 | 1.7785 | 7493    | 0.0330  |
| UC127, 0.6458 | Imidazole-4-acetate                     | 127 | 10.809 | 0.6458 | 109900  | 0.4840  |
| UC127, 0.6815 |   | 127 | 11.406 | 0.6815 | 3183    | 0.0140  |
| UC128, 0.6453 |   | 128 | 10.9   | 0.6453 | 7316    | 0.0322  |
| UC128, 0.6549 |   | 128 | 11.062 | 0.6549 | 2087    | 0.0092  |
| UC128, 0.7608 |   | 128 | 12.852 | 0.7608 | 3288    | 0.0145  |
| UC128, 0.8394 |   | 128 | 14.179 | 0.8394 | 9000    | 0.0396  |
| UC129, 0.7414 | (L-Lysine 1,6-lactam)                   | 129 | 12.524 | 0.7414 | 27546   | 0.1213  |
| UC130, 0.6621 | Octylamine                              | 130 | 11.185 | 0.6621 | 31447   | 0.1385  |
| UC130, 0.8998 |   | 130 | 15.2   | 0.8998 | 86961   | 0.3829  |
| UC130, 0.9071 | C6H11NO2                                | 130 | 15.323 | 0.9071 | 513054  | 2.2589  |
| UC131, 0.4404 | C5H14N4, C5H10N2O2, C6H10O3 or C6H14N2C | 131 | 7.44   | 0.4404 | 19396   | 0.0854  |
| UC131, 1.7749 |   | 131 | 29.981 | 1.7749 | 71996   | 0.3170  |
| UC132, 0.6772 | $\delta$ -Aminolevulinat                | 132 | 11.439 | 0.6772 | 3458    | 0.0152  |
| UC132, 0.7481 | Creatine                                | 132 | 12.637 | 0.7481 | 702676  | 3.0938  |
| UC132, 0.8583 | Ile                                     | 132 | 14.499 | 0.8583 | 206660  | 0.9099  |
| UC132, 0.8665 | Leu                                     | 132 | 14.637 | 0.8665 | 565515  | 2.4899  |
| UC132, 1.0059 | OH-Pro                                  | 132 | 16.992 | 1.0059 | 10882   | 0.0479  |
| UC133, 0.4797 |   | 133 | 8.103  | 0.4797 | 11342   | 0.0499  |
| UC133, 0.5794 | Orn                                     | 133 | 9.787  | 0.5794 | 14866   | 0.0655  |
| UC133, 0.7269 |   | 133 | 12.278 | 0.7269 | 4108    | 0.0181  |
| UC133, 0.8802 | Asn                                     | 133 | 14.869 | 0.8802 | 9925    | 0.0437  |
| UC133, 0.8979 |   | 133 | 15.168 | 0.8979 | 5188    | 0.0228  |
| UC133, 0.9669 |   | 133 | 16.333 | 0.9669 | 7389    | 0.0325  |
| UC134, 0.7293 |   | 134 | 12.32  | 0.7293 | 4368    | 0.0192  |
| UC134, 0.7477 |   | 134 | 12.63  | 0.7477 | 3731    | 0.0164  |
| UC134, 0.7607 |   | 134 | 12.85  | 0.7607 | 4262    | 0.0188  |
| UC134, 0.8609 |   | 134 | 14.542 | 0.8609 | 9092    | 0.0400  |
| UC134, 0.9667 | Asp                                     | 134 | 16.329 | 0.9667 | 222636  | 0.9802  |
| UC136, 0.6193 |   | 136 | 10.462 | 0.6193 | 14880   | 0.0655  |
| UC136, 0.6457 | Adenine                                 | 136 | 10.908 | 0.6457 | 7111    | 0.0313  |
| UC137, 0.3437 |   | 137 | 5.805  | 0.3437 | 225634  | 0.9934  |
| UC137, 0.6450 |   | 137 | 10.895 | 0.6450 | 4104    | 0.0181  |
| UC137, 0.9311 | Hypoxanthine                            | 137 | 15.728 | 0.9311 | 25165   | 0.1108  |
| UC138, 0.701  | Tyamine                                 | 138 | 11.841 | 0.7010 | 60196   | 0.2650  |
| UC138, 0.8784 |   | 138 | 14.838 | 0.8784 | 38008   | 0.1673  |
| UC138, 0.9037 | Antranilate                             | 138 | 15.265 | 0.9037 | 7174    | 0.0316  |
| UC138, 1.7735 |   | 138 | 29.958 | 1.7735 | 91949   | 0.4048  |
| UC139, 0.3441 |   | 139 | 5.812  | 0.3441 | 20582   | 0.0906  |
| UC139, 0.4597 |   | 139 | 7.765  | 0.4597 | 4659    | 0.0205  |
| UC139, 0.7012 | Urocanate                               | 139 | 11.845 | 0.7012 | 47228   | 0.2079  |
| UC140, 0.4959 |   | 140 | 8.377  | 0.4959 | 3916    | 0.0172  |
| UC140, 0.6765 |   | 140 | 11.427 | 0.6765 | 10021   | 0.0441  |
| UC140, 0.8419 |   | 140 | 14.222 | 0.8419 | 12632   | 0.0556  |
| UC140, 0.9464 | (N-Monomethyl-2-aminoethylphosphonate)  | 140 | 15.987 | 0.9464 | 64592   | 0.2844  |
| UC140, 1.7737 | 6-Hydroxynicotinate                     | 140 | 29.962 | 1.7737 | 28200   | 0.1242  |
| UC141, 0.6781 |   | 141 | 11.454 | 0.6781 | 9665    | 0.0426  |
| UC142, 0.8477 |   | 142 | 14.32  | 0.8477 | 6044    | 0.0266  |
| UC142, 0.8818 |   | 142 | 14.895 | 0.8818 | 43608   | 0.1920  |
| UC143, 0.4799 |   | 143 | 8.106  | 0.4799 | 52104   | 0.2294  |
| UC144, 0.6999 | 4-Methyl-5thiazol-ethanol               | 144 | 11.823 | 0.6999 | 398096  | 1.7528  |
| UC144, 0.7391 |   | 144 | 12.485 | 0.7391 | 8678    | 0.0382  |
| UC144, 0.9642 |   | 144 | 16.287 | 0.9642 | 7524    | 0.0331  |
| UC145, 0.4415 |   | 145 | 7.457  | 0.4415 | 5766    | 0.0254  |
| UC145, 0.4799 |   | 145 | 8.107  | 0.4799 | 8967    | 0.0395  |
| UC145, 0.7420 |   | 145 | 12.534 | 0.7420 | 5347    | 0.0235  |
| UC146, 0.3850 | Spermidine                              | 146 | 6.504  | 0.3850 | 25820   | 0.1137  |
| UC146, 0.6854 | (Amino-oxohexanoate)                    | 146 | 11.577 | 0.6854 | 145720  | 0.6416  |
| UC146, 0.7007 | $\gamma$ -guanidinobutyrate             | 146 | 11.836 | 0.7007 | 6523    | 0.0287  |
| UC147, 0.4800 |   | 147 | 8.108  | 0.4800 | 33573   | 0.1478  |
| UC147, 0.5848 | Lys                                     | 147 | 9.878  | 0.5848 | 50305   | 0.2215  |
| UC147, 0.7315 |   | 147 | 12.357 | 0.7315 | 23620   | 0.1040  |
| UC147, 0.7467 |   | 147 | 12.614 | 0.7467 | 9215    | 0.0406  |
| UC147, 0.9001 | Gln                                     | 147 | 15.205 | 0.9001 | 746246  | 3.2856  |
| UC148, 0.7534 |   | 148 | 12.727 | 0.7534 | 44785   | 0.1972  |
| UC148, 0.7704 | C5H9NO4                                 | 148 | 13.013 | 0.7704 | 213625  | 0.9406  |

|               |                                       |     |        |        |          |         |
|---------------|---------------------------------------|-----|--------|--------|----------|---------|
| UC148, 0.9074 | Glu                                   | 148 | 15.327 | 0.9074 | 10093800 | 44.4414 |
| UC148, 1.0532 | o-Acetyl-L-Serine                     | 148 | 17.79  | 1.0532 | 18154    | 0.0799  |
| UC149, 1.7744 |                                       | 149 | 29.974 | 1.7744 | 180309   | 0.7939  |
| UC150, 0.6976 |                                       | 150 | 11.784 | 0.6976 | 114810   | 0.5055  |
| UC150, 0.7153 | 2,6-Dimethylaniline                   | 150 | 12.083 | 0.7153 | 38117    | 0.1678  |
| UC150, 0.8980 | Met                                   | 150 | 15.169 | 0.8980 | 81182    | 0.3574  |
| UC153, 0.3442 | Xanthine                              | 153 | 5.815  | 0.3442 | 55391    | 0.2439  |
| UC153, 0.6450 |                                       | 153 | 10.896 | 0.6450 | 3986     | 0.0175  |
| UC154, 0.6894 |                                       | 154 | 11.646 | 0.6894 | 2508     | 0.0110  |
| UC154, 0.7483 | 3,4-Dihydroxyphenethylamine           | 154 | 12.641 | 0.7483 | 8178     | 0.0360  |
| UC154, 0.8583 |                                       | 154 | 14.499 | 0.8583 | 11077    | 0.0488  |
| UC154, 0.8666 |                                       | 154 | 14.638 | 0.8666 | 28446    | 0.1252  |
| UC154, 1.7746 |                                       | 154 | 29.977 | 1.7746 | 10540    | 0.0464  |
| UC156, 0.3483 |                                       | 156 | 5.883  | 0.3483 | 7530     | 0.0332  |
| UC156, 0.6191 | His                                   | 156 | 10.458 | 0.6191 | 26186    | 0.1153  |
| UC156, 0.7114 |                                       | 156 | 12.017 | 0.7114 | 6000     | 0.0264  |
| UC156, 0.8423 |                                       | 156 | 14.228 | 0.8423 | 6448     | 0.0284  |
| UC156, 0.9464 |                                       | 156 | 15.987 | 0.9464 | 8866     | 0.0390  |
| UC156, 0.9670 |                                       | 156 | 16.334 | 0.9670 | 24805    | 0.1092  |
| UC157, 0.4669 |                                       | 157 | 7.869  | 0.4669 | 13677    | 0.0652  |
| UC158, 0.7708 | (Homostachydrine)                     | 158 | 12.991 | 0.7708 | 241527   | 1.1509  |
| UC159, 0.4418 |                                       | 159 | 7.446  | 0.4418 | 67830    | 0.3232  |
| UC159, 0.7705 |                                       | 159 | 12.986 | 0.7705 | 26090    | 0.1243  |
| UC160, 0.4798 |                                       | 160 | 8.086  | 0.4798 | 4052     | 0.0193  |
| UC160, 0.7130 |                                       | 160 | 12.017 | 0.7130 | 157759   | 0.7517  |
| UC160, 1.1189 | (5-Acetamidopentanoate)               | 160 | 18.857 | 1.1189 | 54048    | 0.2575  |
| UC161, 0.4797 |                                       | 161 | 8.085  | 0.4797 | 18145    | 0.0865  |
| UC161, 0.4966 |                                       | 161 | 8.37   | 0.4966 | 8745     | 0.0417  |
| UC161, 0.6168 |                                       | 161 | 10.395 | 0.6168 | 8419     | 0.0401  |
| UC161, 0.7811 |                                       | 161 | 13.164 | 0.7811 | 23866    | 0.1137  |
| UC162, 0.4799 |                                       | 162 | 8.088  | 0.4799 | 4448     | 0.0212  |
| UC162, 0.7201 | L-Carnitine                           | 162 | 12.136 | 0.7201 | 4287750  | 20.4308 |
| UC162, 0.9058 |                                       | 162 | 15.266 | 0.9058 | 11507    | 0.0548  |
| UC162, 0.9184 |                                       | 162 | 15.478 | 0.9184 | 16824    | 0.0802  |
| UC164, 0.8611 |                                       | 164 | 14.512 | 0.8611 | 7580     | 0.0361  |
| UC165, 0.4797 |                                       | 165 | 8.084  | 0.4797 | 4436     | 0.0211  |
| UC166, 0.7252 |                                       | 166 | 12.222 | 0.7252 | 9913     | 0.0472  |
| UC166, 0.9280 | Phe                                   | 166 | 15.64  | 0.9280 | 87830    | 0.4185  |
| UC166, 1.7766 |                                       | 166 | 29.941 | 1.7766 | 680762   | 3.2438  |
| UC167, 0.7161 |                                       | 167 | 12.068 | 0.7161 | 19944    | 0.0950  |
| UC167, 0.9278 |                                       | 167 | 15.636 | 0.9278 | 9789     | 0.0466  |
| UC168, 1.7781 |                                       | 168 | 29.966 | 1.7781 | 49775    | 0.2372  |
| UC169, 0.9006 | (N-Trimethyl-2-aminoethylphosphonate) | 169 | 15.178 | 0.9006 | 76224    | 0.3632  |
| UC170, 0.4785 |                                       | 170 | 8.065  | 0.4785 | 2163     | 0.0103  |
| UC170, 0.6360 | Pyridoxine                            | 170 | 10.718 | 0.6360 | 11466    | 0.0546  |
| UC170, 0.7489 |                                       | 170 | 12.622 | 0.7489 | 6694     | 0.0319  |
| UC170, 0.7713 |                                       | 170 | 12.998 | 0.7713 | 15829    | 0.0754  |
| UC170, 0.8597 |                                       | 170 | 14.489 | 0.8597 | 4399     | 0.0210  |
| UC170, 0.8676 |                                       | 170 | 14.622 | 0.8676 | 9416     | 0.0449  |
| UC170, 0.9079 | L-Cysteate                            | 170 | 15.301 | 0.9079 | 454045   | 2.1635  |
| UC171, 1.7786 |                                       | 171 | 29.974 | 1.7786 | 725446   | 3.4567  |
| UC173, 0.3456 |                                       | 173 | 5.824  | 0.3456 | 22609    | 0.1077  |
| UC173, 0.4654 |                                       | 173 | 7.844  | 0.4654 | 19710    | 0.0939  |
| UC173, 0.7610 | (Acetylarginine)                      | 173 | 12.825 | 0.7610 | 23148    | 0.1103  |
| UC173, 1.7767 |                                       | 173 | 29.942 | 1.7767 | 346797   | 1.6525  |
| UC175, 0.4800 |                                       | 175 | 8.09   | 0.4800 | 128196   | 0.6108  |
| UC175, 0.6043 | Arg                                   | 175 | 10.184 | 0.6043 | 248617   | 1.1846  |
| UC175, 0.9322 | N-Ethyl-L-glutamine                   | 175 | 15.711 | 0.9322 | 17727    | 0.0845  |
| UC176, 0.4802 |                                       | 176 | 8.092  | 0.4802 | 24780    | 0.1181  |
| UC176, 0.9203 | Cit                                   | 176 | 15.509 | 0.9203 | 102883   | 0.4902  |
| UC177, 0.3443 |                                       | 177 | 5.802  | 0.3443 | 30384    | 0.1448  |
| UC177, 0.4419 |                                       | 177 | 7.447  | 0.4419 | 10943    | 0.0521  |
| UC177, 0.4800 |                                       | 177 | 8.089  | 0.4800 | 19717    | 0.0939  |
| UC179, 0.3452 |                                       | 179 | 5.818  | 0.3452 | 9447     | 0.0450  |
| UC179, 0.6476 |                                       | 179 | 10.914 | 0.6476 | 3506     | 0.0167  |
| UC179, 0.7616 |                                       | 179 | 12.836 | 0.7616 | 7406     | 0.0353  |
| UC181, 0.4422 |                                       | 181 | 7.452  | 0.4422 | 4143     | 0.0197  |
| UC182, 0.7405 |                                       | 182 | 12.48  | 0.7405 | 11923    | 0.0568  |
| UC182, 0.8146 |                                       | 182 | 13.729 | 0.8146 | 49418    | 0.2355  |
| UC182, 0.9511 | Tyr                                   | 182 | 16.029 | 0.9511 | 16555    | 0.0789  |
| UC183, 0.4832 |                                       | 183 | 8.144  | 0.4832 | 8060     | 0.0384  |
| UC183, 0.8149 |                                       | 183 | 13.734 | 0.8149 | 7482     | 0.0357  |
| UC183, 1.7787 |                                       | 183 | 29.977 | 1.7787 | 9881     | 0.0471  |
| UC184, 0.7202 |                                       | 184 | 12.137 | 0.7202 | 12487    | 0.0595  |
| UC184, 0.7574 |                                       | 184 | 12.765 | 0.7574 | 5174     | 0.0247  |
| UC184, 1.0008 |                                       | 184 | 16.866 | 1.0008 | 11777    | 0.0561  |
| UC184, 1.7767 |                                       | 184 | 29.942 | 1.7767 | 64325    | 0.3065  |
| UC185, 0.4663 |                                       | 185 | 7.858  | 0.4663 | 6584     | 0.0314  |
| UC185, 0.9008 |                                       | 185 | 15.182 | 0.9008 | 32534    | 0.1550  |
| UC185, 1.7787 |                                       | 185 | 29.976 | 1.7787 | 8621     | 0.0411  |
| UC186, 0.7591 |                                       | 186 | 12.793 | 0.7591 | 18654    | 0.0889  |
| UC186, 0.7720 |                                       | 186 | 13.01  | 0.7720 | 11649    | 0.0555  |
| UC186, 0.9130 |                                       | 186 | 15.387 | 0.9130 | 52264    | 0.2490  |
| UC186, 0.9345 |                                       | 186 | 15.749 | 0.9345 | 14151    | 0.0674  |
| UC187, 0.4658 |                                       | 187 | 7.875  | 0.4658 | 12628    | 0.0599  |
| UC187, 0.6491 |                                       | 187 | 10.973 | 0.6491 | 21099    | 0.1001  |
| UC187, 0.7910 |                                       | 187 | 13.373 | 0.7910 | 6390     | 0.0303  |

|               |                          |     |        |        |         |         |
|---------------|--------------------------|-----|--------|--------|---------|---------|
| UC187, 1.7730 |                          | 187 | 29.975 | 1.7730 | 33404   | 0.1585  |
| UC188, 0.7589 |                          | 188 | 12.83  | 0.7589 | 5796    | 0.0275  |
| UC189, 0.3461 | C8H18N4O                 | 189 | 5.852  | 0.3461 | 20267   | 0.0962  |
| UC189, 0.4669 |                          | 189 | 7.893  | 0.4669 | 9788    | 0.0464  |
| UC189, 0.6085 | C8H15N2O3 or C9H20N2O2   | 189 | 10.287 | 0.6085 | 14225   | 0.0675  |
| UC189, 0.8215 | C8H15N2O3 or C9H20N2O2   | 189 | 13.889 | 0.8215 | 13046   | 0.0619  |
| UC189, 0.9554 | C9H20N2O2                | 189 | 16.152 | 0.9554 | 20488   | 0.0972  |
| UC189, 1.7731 |                          | 189 | 29.976 | 1.7731 | 166316  | 0.7892  |
| UC190, 0.7020 |                          | 190 | 11.868 | 0.7020 | 5677    | 0.0269  |
| UC191, 0.4427 |                          | 191 | 7.484  | 0.4427 | 33246   | 0.1578  |
| UC191, 0.7474 | 2,6-Diaminoheptanedioate | 191 | 12.635 | 0.7474 | 16452   | 0.0781  |
| UC191, 1.7606 |                          | 191 | 29.764 | 1.7606 | 8560    | 0.0406  |
| UC192, 0.7960 |                          | 192 | 13.458 | 0.7960 | 10941   | 0.0519  |
| UC192, 0.9161 |                          | 192 | 15.487 | 0.9161 | 14966   | 0.0710  |
| UC192, 1.7734 |                          | 192 | 29.981 | 1.7734 | 9453    | 0.0449  |
| UC193, 0.4805 |                          | 193 | 8.124  | 0.4805 | 4284    | 0.0203  |
| UC193, 1.7730 |                          | 193 | 29.975 | 1.7730 | 25982   | 0.1233  |
| UC195, 0.7293 |                          | 195 | 12.329 | 0.7293 | 17776   | 0.0843  |
| UC197, 0.6029 |                          | 197 | 10.192 | 0.6029 | 3855    | 0.0183  |
| UC198, 0.9230 |                          | 198 | 15.605 | 0.9230 | 20429   | 0.0969  |
| UC198, 1.7732 |                          | 198 | 29.977 | 1.7732 | 22048   | 0.1046  |
| UC201, 0.3444 |                          | 201 | 5.822  | 0.3444 | 29938   | 0.1421  |
| UC201, 0.7598 |                          | 201 | 12.846 | 0.7598 | 7146    | 0.0339  |
| UC201, 1.7670 |                          | 201 | 29.873 | 1.7670 | 66311   | 0.3147  |
| UC202, 0.7834 | (Heteropyrithiamine)     | 202 | 13.244 | 0.7834 | 6023070 | 28.5802 |
| UC202, 0.8160 |                          | 202 | 13.795 | 0.8160 | 45739   | 0.2170  |
| UC203, 0.4804 |                          | 203 | 8.121  | 0.4804 | 16557   | 0.0786  |
| UC204, 0.7231 |                          | 204 | 12.225 | 0.7231 | 3824    | 0.0181  |
| UC204, 0.9260 |                          | 204 | 15.655 | 0.9260 | 6733    | 0.0319  |
| UC204, 1.0001 |                          | 204 | 16.907 | 1.0001 | 29646   | 0.1407  |
| UC205, 0.8343 |                          | 205 | 14.104 | 0.8343 | 13602   | 0.0645  |
| UC206, 0.8155 |                          | 206 | 13.787 | 0.8155 | 8742    | 0.0415  |
| UC207, 0.3438 |                          | 207 | 5.812  | 0.3438 | 95213   | 0.4518  |
| UC207, 0.4810 |                          | 207 | 8.131  | 0.4810 | 6967    | 0.0331  |
| UC207, 1.7733 |                          | 207 | 29.979 | 1.7733 | 20680   | 0.0981  |
| UC208, 0.8105 | C10H9NO4                 | 208 | 13.702 | 0.8105 | 42041   | 0.1995  |
| UC209, 0.3442 |                          | 209 | 5.819  | 0.3442 | 18230   | 0.0865  |
| UC209, 1.7731 |                          | 209 | 29.976 | 1.7731 | 103659  | 0.4919  |
| UC210, 0.8418 |                          | 210 | 14.231 | 0.8418 | 9217    | 0.0437  |
| UC210, 1.7730 |                          | 210 | 29.975 | 1.7730 | 293812  | 1.3942  |
| UC211, 0.8002 |                          | 211 | 13.529 | 0.8002 | 7476    | 0.0355  |
| UC212, 0.7912 |                          | 212 | 13.376 | 0.7912 | 30549   | 0.1450  |
| UC212, 1.7732 |                          | 212 | 29.977 | 1.7732 | 42716   | 0.2027  |
| UC213, 0.4666 |                          | 213 | 7.879  | 0.4666 | 6531    | 0.0310  |
| UC214, 0.7698 | Phenazopyridine          | 214 | 13.015 | 0.7698 | 227079  | 1.0775  |
| UC214, 0.9237 |                          | 214 | 15.616 | 0.9237 | 21853   | 0.1037  |
| UC215, 0.7707 | Harmaline                | 215 | 13.029 | 0.7707 | 26258   | 0.1246  |
| UC215, 1.7687 |                          | 215 | 29.901 | 1.7687 | 1815560 | 8.6150  |
| UC216, 0.8040 |                          | 216 | 13.607 | 0.8040 | 12776   | 0.0573  |
| UC217, 1.7710 |                          | 217 | 29.975 | 1.7710 | 13285   | 0.0596  |
| UC218, 0.8125 | (o-Propanoylcarnitine)   | 218 | 13.752 | 0.8125 | 12824   | 0.0575  |
| UC219, 0.4405 |                          | 219 | 7.455  | 0.4405 | 39001   | 0.1749  |
| UC220, 1.0000 |                          | 220 | 16.925 | 1.0000 | 21898   | 0.0982  |
| UC220, 1.1787 |                          | 220 | 19.95  | 1.1787 | 20310   | 0.0911  |
| UC221, 0.3433 |                          | 221 | 5.81   | 0.3433 | 101905  | 0.4570  |
| UC221, 0.7269 |                          | 221 | 12.302 | 0.7269 | 16153   | 0.0724  |
| UC223, 0.3438 |                          | 223 | 5.819  | 0.3438 | 13465   | 0.0604  |
| UC223, 0.8330 | Cystathionine            | 223 | 14.099 | 0.8330 | 24087   | 0.1080  |
| UC223, 1.7712 |                          | 223 | 29.977 | 1.7712 | 56213   | 0.2521  |
| UC226, 0.8063 |                          | 226 | 13.647 | 0.8063 | 15261   | 0.0684  |
| UC227, 0.4639 |                          | 227 | 7.852  | 0.4639 | 10232   | 0.0459  |
| UC227, 0.5738 | Car                      | 227 | 9.711  | 0.5738 | 157417  | 0.7059  |
| UC227, 0.6185 |                          | 227 | 10.468 | 0.6185 | 456266  | 2.0460  |
| UC227, 1.7712 | Porphobilinogen          | 227 | 29.977 | 1.7712 | 4474    | 0.0201  |
| UC229, 0.8522 | 2'-Deoxyuridine          | 229 | 14.424 | 0.8522 | 13964   | 0.0626  |
| UC229, 1.7710 |                          | 229 | 29.975 | 1.7710 | 10807   | 0.0485  |
| UC230, 1.7709 |                          | 230 | 29.973 | 1.7709 | 24124   | 0.1082  |
| UC231, 0.3452 |                          | 231 | 5.843  | 0.3452 | 15270   | 0.0685  |
| UC231, 0.9050 | (Camoensine)             | 231 | 15.317 | 0.9050 | 26866   | 0.1205  |
| UC231, 1.7686 |                          | 231 | 29.934 | 1.7686 | 107351  | 0.4814  |
| UC232, 0.5708 |                          | 232 | 9.661  | 0.5708 | 8268    | 0.0371  |
| UC232, 0.8070 |                          | 232 | 13.658 | 0.8070 | 14022   | 0.0629  |
| UC232, 0.9055 |                          | 232 | 15.325 | 0.9055 | 4370    | 0.0196  |
| UC233, 0.3461 |                          | 233 | 5.857  | 0.3461 | 12276   | 0.0550  |
| UC233, 1.0305 |                          | 233 | 17.441 | 1.0305 | 14980   | 0.0672  |
| UC233, 1.7710 |                          | 233 | 29.974 | 1.7710 | 11943   | 0.0536  |
| UC235, 0.3435 |                          | 235 | 5.814  | 0.3435 | 38133   | 0.1710  |
| UC235, 0.7789 |                          | 235 | 13.183 | 0.7789 | 7769    | 0.0348  |
| UC235, 0.9455 | (Benzoylglutamine)       | 235 | 16.003 | 0.9455 | 900961  | 4.0402  |
| UC236, 0.9449 |                          | 236 | 15.993 | 0.9449 | 102700  | 0.4605  |
| UC237, 0.3440 |                          | 237 | 5.822  | 0.3440 | 9746    | 0.0437  |
| UC238, 0.8165 |                          | 238 | 13.819 | 0.8165 | 20407   | 0.0915  |
| UC238, 1.7710 |                          | 238 | 29.975 | 1.7710 | 18299   | 0.0821  |
| UC239, 0.4643 |                          | 239 | 7.858  | 0.4643 | 77883   | 0.3493  |
| UC241, 0.4645 |                          | 241 | 7.861  | 0.4645 | 11967   | 0.0537  |
| UC241, 0.5813 | Homocarnosine            | 241 | 9.838  | 0.5813 | 33052   | 0.1482  |
| UC242, 0.5810 |                          | 242 | 9.833  | 0.5810 | 39154   | 0.1756  |

|               |                     |     |        |        |         |         |
|---------------|---------------------|-----|--------|--------|---------|---------|
| UC243, 0.4407 |                     | 243 | 7.459  | 0.4407 | 2075    | 0.0093  |
| UC243, 0.4642 |                     | 243 | 7.857  | 0.4642 | 4338    | 0.0195  |
| UC243, 0.5720 |                     | 243 | 9.681  | 0.5720 | 3787    | 0.0170  |
| UC243, 0.7536 |                     | 243 | 12.755 | 0.7536 | 81797   | 0.3668  |
| UC243, 0.7993 |                     | 243 | 13.528 | 0.7993 | 73427   | 0.3293  |
| UC244, 0.7986 |                     | 244 | 13.517 | 0.7986 | 17010   | 0.0763  |
| UC244, 0.8129 | Cytidine            | 244 | 13.759 | 0.8129 | 12995   | 0.0583  |
| UC245, 0.8221 |                     | 245 | 13.878 | 0.8221 | 9800    | 0.0455  |
| UC245, 0.8669 |                     | 245 | 14.634 | 0.8669 | 8899    | 0.0413  |
| UC245, 0.8996 |                     | 245 | 15.186 | 0.8996 | 7246    | 0.0336  |
| UC245, 1.7756 | Uridine             | 245 | 29.974 | 1.7756 | 31103   | 0.1443  |
| UC246, 0.5795 |                     | 246 | 9.783  | 0.5795 | 4570    | 0.0212  |
| UC246, 0.5920 |                     | 246 | 9.994  | 0.5920 | 87713   | 0.4068  |
| UC246, 0.9130 |                     | 246 | 15.413 | 0.9130 | 1786    | 0.0083  |
| UC247, 0.4800 |                     | 247 | 8.103  | 0.4800 | 3033    | 0.0141  |
| UC249, 0.4655 |                     | 249 | 7.858  | 0.4655 | 5331    | 0.0247  |
| UC249, 0.4800 |                     | 249 | 8.103  | 0.4800 | 2161    | 0.0100  |
| UC249, 0.8770 |                     | 249 | 14.804 | 0.8770 | 3431    | 0.0159  |
| UC250, 0.8265 |                     | 250 | 13.952 | 0.8265 | 13201   | 0.0612  |
| UC252, 0.8143 |                     | 252 | 13.747 | 0.8143 | 7305    | 0.0339  |
| UC254, 0.8181 |                     | 254 | 13.81  | 0.8181 | 23539   | 0.1092  |
| UC255, 0.3483 |                     | 255 | 5.879  | 0.3483 | 354690  | 1.6451  |
| UC257, 0.3541 |                     | 257 | 5.978  | 0.3541 | 41659   | 0.1932  |
| UC257, 0.4654 |                     | 257 | 7.857  | 0.4654 | 9069    | 0.0421  |
| UC257, 0.9449 |                     | 257 | 15.951 | 0.9449 | 135161  | 0.6269  |
| UC258, 1.7561 |                     | 258 | 29.645 | 1.7561 | 418492  | 1.9410  |
| UC261, 0.3467 |                     | 261 | 5.852  | 0.3467 | 9010    | 0.0418  |
| UC261, 0.4802 |                     | 261 | 8.107  | 0.4802 | 3343    | 0.0155  |
| UC263, 0.3439 |                     | 263 | 5.805  | 0.3439 | 8528    | 0.0396  |
| UC263, 0.4802 |                     | 263 | 8.106  | 0.4802 | 3421    | 0.0159  |
| UC263, 0.7473 | (D-Omaline)         | 263 | 12.615 | 0.7473 | 24965   | 0.1158  |
| UC263, 0.9058 |                     | 263 | 15.291 | 0.9058 | 9680    | 0.0449  |
| UC265, 0.3453 |                     | 265 | 5.829  | 0.3453 | 3727    | 0.0173  |
| UC265, 0.5598 |                     | 265 | 9.45   | 0.5598 | 8374    | 0.0388  |
| UC265, 0.5739 |                     | 265 | 9.688  | 0.5739 | 3788    | 0.0176  |
| UC267, 0.3506 |                     | 267 | 5.918  | 0.3506 | 14429   | 0.0669  |
| UC267, 1.7757 |                     | 267 | 29.976 | 1.7757 | 6061    | 0.0281  |
| UC268, 0.8290 | Adenosine           | 268 | 13.995 | 0.8290 | 12361   | 0.0573  |
| UC268, 1.0324 |                     | 268 | 17.428 | 1.0324 | 15489   | 0.0718  |
| UC269, 1.7758 |                     | 269 | 29.977 | 1.7758 | 27592   | 0.1280  |
| UC270, 0.8361 |                     | 270 | 14.114 | 0.8361 | 12560   | 0.0583  |
| UC270, 0.8838 |                     | 270 | 14.919 | 0.8838 | 28259   | 0.1311  |
| UC271, 0.4655 |                     | 271 | 7.858  | 0.4655 | 5478    | 0.0254  |
| UC271, 1.7755 |                     | 271 | 29.973 | 1.7755 | 17038   | 0.0790  |
| UC272, 0.8615 |                     | 272 | 14.543 | 0.8615 | 98454   | 0.4566  |
| UC273, 0.4654 |                     | 273 | 7.856  | 0.4654 | 5511    | 0.0256  |
| UC273, 0.9451 |                     | 273 | 15.955 | 0.9451 | 7215    | 0.0335  |
| UC273, 1.7757 |                     | 273 | 29.976 | 1.7757 | 8169    | 0.0379  |
| UC274, 0.8782 |                     | 274 | 14.933 | 0.8782 | 5848    | 0.0280  |
| UC274, 0.9518 |                     | 274 | 16.185 | 0.9518 | 7071    | 0.0338  |
| UC275, 0.3437 |                     | 275 | 5.845  | 0.3437 | 27747   | 0.1328  |
| UC275, 0.4781 |                     | 275 | 8.13   | 0.4781 | 3613    | 0.0173  |
| UC275, 0.8660 |                     | 275 | 14.725 | 0.8660 | 11156   | 0.0534  |
| UC276, 0.6277 |                     | 276 | 10.673 | 0.6277 | 3387    | 0.0162  |
| UC276, 0.8582 | Eserine             | 276 | 14.592 | 0.8582 | 561052  | 2.6844  |
| UC276, 0.8657 | (Physostigmine)     | 276 | 14.721 | 0.8657 | 2233210 | 10.6848 |
| UC277, 0.3437 |                     | 277 | 5.845  | 0.3437 | 23399   | 0.1120  |
| UC277, 0.6900 |                     | 277 | 11.733 | 0.6900 | 41002   | 0.1962  |
| UC277, 0.8576 |                     | 277 | 14.583 | 0.8576 | 87680   | 0.4195  |
| UC277, 0.9030 |                     | 277 | 15.354 | 0.9030 | 14819   | 0.0709  |
| UC277, 1.0887 |                     | 277 | 18.513 | 1.0887 | 7465    | 0.0357  |
| UC278, 0.8574 |                     | 278 | 14.579 | 0.8574 | 15016   | 0.0718  |
| UC280, 1.7548 |                     | 280 | 29.839 | 1.7548 | 44361   | 0.2122  |
| UC285, 0.8665 |                     | 285 | 14.734 | 0.8665 | 6457    | 0.0309  |
| UC287, 0.4636 |                     | 287 | 7.883  | 0.4636 | 10988   | 0.0526  |
| UC287, 0.6397 |                     | 287 | 10.877 | 0.6397 | 15773   | 0.0755  |
| UC289, 0.3439 |                     | 289 | 5.848  | 0.3439 | 14788   | 0.0708  |
| UC289, 0.7019 |                     | 289 | 11.935 | 0.7019 | 2321    | 0.0111  |
| UC289, 0.7949 |                     | 289 | 13.516 | 0.7949 | 3889    | 0.0186  |
| UC291, 0.3435 |                     | 291 | 5.841  | 0.3435 | 159244  | 0.7619  |
| UC292, 0.8831 |                     | 292 | 15.016 | 0.8831 | 6364    | 0.0304  |
| UC293, 0.3440 |                     | 293 | 5.849  | 0.3440 | 48401   | 0.2316  |
| UC294, 0.5631 |                     | 294 | 9.575  | 0.5631 | 6500    | 0.0311  |
| UC295, 0.3444 |                     | 295 | 5.857  | 0.3444 | 14785   | 0.0707  |
| UC295, 0.9305 |                     | 295 | 15.823 | 0.9305 | 5127    | 0.0245  |
| UC296, 0.9608 | (Mebendazole)       | 296 | 16.337 | 0.9608 | 75207   | 0.3598  |
| UC297, 0.9619 |                     | 297 | 16.356 | 0.9619 | 12147   | 0.0581  |
| UC298, 0.8468 |                     | 298 | 14.399 | 0.8468 | 18519   | 0.0886  |
| UC299, 0.9041 |                     | 299 | 15.374 | 0.9041 | 5318    | 0.0254  |
| UC300, 0.9383 |                     | 300 | 15.955 | 0.9383 | 11323   | 0.0542  |
| UC301, 0.4637 |                     | 301 | 7.885  | 0.4637 | 22120   | 0.1058  |
| UC302, 0.8663 |                     | 302 | 14.731 | 0.8663 | 6506    | 0.0311  |
| UC302, 0.8770 | ((Ac)2-L-Lys-D-Ala) | 302 | 14.913 | 0.8770 | 108652  | 0.5198  |
| UC302, 0.9031 |                     | 302 | 15.356 | 0.9031 | 5005    | 0.0239  |
| UC303, 0.3413 |                     | 303 | 5.816  | 0.3413 | 6390    | 0.0295  |
| UC303, 0.8768 |                     | 303 | 14.94  | 0.8768 | 17823   | 0.0824  |
| UC304, 0.4652 |                     | 304 | 7.927  | 0.4652 | 8847    | 0.0409  |

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|---|-----|--------|--------|---------|--------|
| UC304, 0.8655   | 304 | 14.748 | 0.8655 | 9954    | 0.0460 |
| UC304, 0.8872   | 304 | 15.118 | 0.8872 | 8741    | 0.0404 |
| UC305, 0.3413   | 305 | 5.816  | 0.3413 | 142908  | 0.6609 |
| UC306, 0.7601   | 306 | 12.952 | 0.7601 | 20456   | 0.0946 |
| UC307, 0.3417   | 307 | 5.823  | 0.3417 | 53372   | 0.2468 |
| UC307, 1.5969   | 307 | 27.212 | 1.5969 | 27875   | 0.1289 |
| UC308, 0.8829   | 308 | 15.044 | 0.8829 | 3344    | 0.0155 |
| UC309, 0.3424   | 309 | 5.834  | 0.3424 | 17606   | 0.0814 |
| UC309, 0.4629   | 309 | 7.887  | 0.4629 | 6657    | 0.0308 |
| UC315, 0.8762   | 315 | 14.931 | 0.8762 | 6145    | 0.0284 |
| UC315, 0.8995 (Dihydropentanoate)                     | 315 | 15.327 | 0.8995 | 51632   | 0.2388 |
| UC316, 0.8754 (Hippeastrine)                          | 316 | 14.916 | 0.8754 | 1162080 | 5.3739 |
| UC316, 0.8930   | 316 | 15.217 | 0.8930 | 23966   | 0.1108 |
| UC316, 0.9036   | 316 | 15.397 | 0.9036 | 4222    | 0.0195 |
| UC317, 0.3438 (o-Methylptelefolonium)                 | 317 | 5.859  | 0.3438 | 161102  | 0.7450 |
| UC317, 0.4634   | 317 | 7.897  | 0.4634 | 8267    | 0.0382 |
| UC317, 0.8752   | 317 | 14.913 | 0.8752 | 206775  | 0.9562 |
| UC317, 0.8932   | 317 | 15.22  | 0.8932 | 4037    | 0.0187 |
| UC317, 0.9068   | 317 | 15.452 | 0.9068 | 67085   | 0.3102 |
| UC318, 0.3446   | 318 | 5.872  | 0.3446 | 31551   | 0.1459 |
| UC318, 0.9055   | 318 | 15.429 | 0.9055 | 7611    | 0.0352 |
| UC319, 0.3415 (Eseramine)                             | 319 | 5.82   | 0.3415 | 57573   | 0.2662 |
| UC319, 0.9038   | 319 | 15.401 | 0.9038 | 11051   | 0.0511 |
| UC320, 0.3420   | 320 | 5.827  | 0.3420 | 8121    | 0.0376 |
| UC320, 0.3461   | 320 | 5.897  | 0.3461 | 5949    | 0.0275 |
| UC320, 0.3527   | 320 | 6.01   | 0.3527 | 16202   | 0.0749 |
| UC321, 0.3418   | 321 | 5.824  | 0.3418 | 63349   | 0.2929 |
| UC323, 0.3425   | 323 | 5.836  | 0.3425 | 24099   | 0.1114 |
| UC323, 0.7177   | 323 | 12.23  | 0.7177 | 9439    | 0.0436 |
| UC324, 0.4604   | 324 | 7.846  | 0.4604 | 3696    | 0.0171 |
| UC325, 0.3454   | 325 | 5.885  | 0.3454 | 15375   | 0.0711 |
| UC325, 0.4637   | 325 | 7.901  | 0.4637 | 6100    | 0.0282 |
| UC329, 0.6266   | 329 | 10.678 | 0.6266 | 15      | 0.0001 |
| UC330, 0.8950   | 330 | 15.251 | 0.8950 | 5029    | 0.0233 |
| UC330, 0.9036   | 330 | 15.397 | 0.9036 | 3034    | 0.0140 |
| UC331, 0.9050   | 331 | 15.421 | 0.9050 | 4946    | 0.0229 |
| UC332, 0.9044   | 332 | 15.464 | 0.9044 | 12121   | 0.0565 |
| UC333, 0.3425   | 333 | 5.857  | 0.3425 | 12789   | 0.0596 |
| UC333, 0.9080   | 333 | 15.526 | 0.9080 | 42465   | 0.1980 |
| UC333, 1.7358   | 333 | 29.68  | 1.7358 | 12216   | 0.0570 |
| UC333, 1.7471   | 333 | 29.874 | 1.7471 | 33480   | 0.1561 |
| UC334, 0.8431   | 334 | 14.416 | 0.8431 | 4881    | 0.0228 |
| UC334, 0.9051   | 334 | 15.476 | 0.9051 | 3968    | 0.0185 |
| UC335, 0.3428   | 335 | 5.861  | 0.3428 | 26722   | 0.1246 |
| UC336, 0.8478   | 336 | 14.496 | 0.8478 | 8497    | 0.0396 |
| UC337, 0.3435   | 337 | 5.874  | 0.3435 | 13633   | 0.0636 |
| UC337, 0.4637   | 337 | 7.928  | 0.4637 | 4783    | 0.0223 |
| UC337, 0.9001   | 337 | 15.391 | 0.9001 | 3376    | 0.0157 |
| UC337, 0.9056   | 337 | 15.485 | 0.9056 | 3035    | 0.0142 |
| UC338, 0.9062   | 338 | 15.495 | 0.9062 | 4064    | 0.0189 |
| UC339, 0.9074 (1(5-Phosphribosyl)imidazole-4-acetate) | 339 | 15.515 | 0.9074 | 33241   | 0.1550 |
| UC341, 0.9050   | 341 | 15.475 | 0.9050 | 2835    | 0.0132 |
| UC343, 0.9051   | 343 | 15.477 | 0.9051 | 2685    | 0.0125 |
| UC344, 0.9037   | 344 | 15.452 | 0.9037 | 6872    | 0.0320 |
| UC345, 0.3427   | 345 | 5.859  | 0.3427 | 6676    | 0.0311 |
| UC347, 0.3438   | 347 | 5.879  | 0.3438 | 5935    | 0.0277 |
| UC347, 0.3514   | 347 | 6.008  | 0.3514 | 4157    | 0.0194 |
| UC347, 0.9445   | 347 | 16.15  | 0.9445 | 4432    | 0.0207 |
| UC348, 0.9074   | 348 | 15.515 | 0.9074 | 14905   | 0.0695 |
| UC348, 1.6414   | 348 | 28.066 | 1.6414 | 100168  | 0.4670 |
| UC349, 0.3429   | 349 | 5.863  | 0.3429 | 9381    | 0.0437 |
| UC351, 0.3436   | 351 | 5.875  | 0.3436 | 17326   | 0.0808 |
| UC352, 0.5961   | 352 | 10.193 | 0.5961 | 2768    | 0.0129 |
| UC352, 0.9456 (o-β-D-Xylosylzeatine)                  | 352 | 16.169 | 0.9456 | 14108   | 0.0658 |
| UC353, 0.4657   | 353 | 7.963  | 0.4657 | 11817   | 0.0551 |
| UC355, 0.4637   | 355 | 7.928  | 0.4637 | 2786    | 0.0130 |
| UC355, 0.4768   | 355 | 8.153  | 0.4768 | 3972    | 0.0185 |
| UC355, 0.6606   | 355 | 11.296 | 0.6606 | 5180    | 0.0242 |
| UC355, 0.9054   | 355 | 15.481 | 0.9054 | 1614    | 0.0075 |
| UC357, 0.3456   | 357 | 5.909  | 0.3456 | 5424    | 0.0253 |
| UC360, 0.9045   | 360 | 15.466 | 0.9045 | 2010    | 0.0094 |
| UC360, 0.9724   | 360 | 16.627 | 0.9724 | 12395   | 0.0578 |
| UC361, 0.3423   | 361 | 5.853  | 0.3423 | 5112    | 0.0262 |
| UC361, 0.9052   | 361 | 15.48  | 0.9052 | 3306    | 0.0169 |
| UC365, 0.3418   | 365 | 5.845  | 0.3418 | 10118   | 0.0518 |
| UC366, 0.5611   | 366 | 9.596  | 0.5611 | 2311    | 0.0118 |
| UC366, 0.9050   | 366 | 15.477 | 0.9050 | 1377    | 0.0070 |
| UC369, 0.3537   | 369 | 6.049  | 0.3537 | 12922   | 0.0661 |
| UC370, 0.9052   | 370 | 15.48  | 0.9052 | 2937    | 0.0150 |
| UC370, 1.6376   | 370 | 28.004 | 1.6376 | 8203    | 0.0420 |
| UC371, 0.7593   | 371 | 12.985 | 0.7593 | 6395    | 0.0327 |
| UC373, 0.3417   | 373 | 5.844  | 0.3417 | 12310   | 0.0630 |
| UC373, 0.6493   | 373 | 11.103 | 0.6493 | 17990   | 0.0920 |
| UC374, 0.9045   | 374 | 15.467 | 0.9045 | 1107    | 0.0057 |
| UC375, 0.3417   | 375 | 5.844  | 0.3417 | 32384   | 0.1657 |
| UC376, 0.9047   | 376 | 15.471 | 0.9047 | 36712   | 0.1878 |
| UC377, 0.3420   | 377 | 5.848  | 0.3420 | 12239   | 0.0626 |

|               |                |     |        |        |        |        |
|---------------|----------------|-----|--------|--------|--------|--------|
| UC378, 0.9046 |                | 378 | 15.47  | 0.9046 | 1790   | 0.0092 |
| UC379, 0.3422 |                | 379 | 5.852  | 0.3422 | 6150   | 0.0315 |
| UC381, 0.4660 |                | 381 | 7.969  | 0.4660 | 1      | 0.0000 |
| UC385, 0.4638 |                | 385 | 7.932  | 0.4638 | 5065   | 0.0259 |
| UC387, 0.3420 |                | 387 | 5.848  | 0.3420 | 7443   | 0.0381 |
| UC389, 0.3417 |                | 389 | 5.844  | 0.3417 | 40780  | 0.2086 |
| UC390, 0.3420 |                | 390 | 5.873  | 0.3420 | 2351   | 0.0118 |
| UC390, 0.9043 |                | 390 | 15.531 | 0.9043 | 7382   | 0.0370 |
| UC390, 0.9272 |                | 390 | 15.924 | 0.9272 | 25834  | 0.1293 |
| UC391, 0.3423 |                | 391 | 5.878  | 0.3423 | 10664  | 0.0534 |
| UC392, 0.6186 | (Heteratisine) | 392 | 10.624 | 0.6186 | 15561  | 0.0779 |
| UC393, 0.3427 |                | 393 | 5.885  | 0.3427 | 3508   | 0.0176 |
| UC393, 0.6197 |                | 393 | 10.643 | 0.6197 | 3635   | 0.0182 |
| UC394, 0.9045 |                | 394 | 15.534 | 0.9045 | 13461  | 0.0674 |
| UC395, 0.8348 |                | 395 | 14.336 | 0.8348 | 5312   | 0.0266 |
| UC396, 0.8421 |                | 396 | 14.463 | 0.8421 | 2464   | 0.0123 |
| UC397, 0.3539 | (Cephalothin)  | 397 | 6.078  | 0.3539 | 16002  | 0.0801 |
| UC398, 0.9287 |                | 398 | 15.949 | 0.9287 | 8317   | 0.0416 |
| UC399, 0.6034 |                | 399 | 10.362 | 0.6034 | 27911  | 0.1397 |
| UC400, 0.6036 |                | 400 | 10.366 | 0.6036 | 4950   | 0.0248 |
| UC401, 0.3426 |                | 401 | 5.883  | 0.3426 | 5248   | 0.0263 |
| UC403, 0.3420 |                | 403 | 5.873  | 0.3420 | 17941  | 0.0898 |
| UC405, 0.3424 |                | 405 | 5.88   | 0.3424 | 17915  | 0.0897 |
| UC405, 0.6456 |                | 405 | 11.088 | 0.6456 | 2712   | 0.0136 |
| UC407, 0.3428 |                | 407 | 5.888  | 0.3428 | 7288   | 0.0365 |
| UC407, 0.4648 |                | 407 | 7.983  | 0.4648 | 2103   | 0.0105 |
| UC409, 0.3427 |                | 409 | 5.886  | 0.3427 | 3683   | 0.0184 |
| UC411, 1.0164 | (Ceftibuten)   | 411 | 17.455 | 1.0164 | 14671  | 0.0735 |
| UC413, 0.4647 |                | 413 | 7.98   | 0.4647 | 3600   | 0.0180 |
| UC415, 0.4665 |                | 415 | 8.012  | 0.4665 | 15812  | 0.0792 |
| UC416, 0.6852 |                | 416 | 11.768 | 0.6852 | 2590   | 0.0130 |
| UC416, 0.7004 |                | 416 | 12.029 | 0.7004 | 2402   | 0.0120 |
| UC416, 0.9421 |                | 416 | 16.179 | 0.9421 | 4426   | 0.0222 |
| UC416, 0.9495 |                | 416 | 16.307 | 0.9495 | 10970  | 0.0549 |
| UC417, 0.3424 |                | 417 | 5.88   | 0.3424 | 10714  | 0.0536 |
| UC417, 0.9254 |                | 417 | 15.893 | 0.9254 | 1666   | 0.0083 |
| UC419, 0.3412 |                | 419 | 5.858  | 0.3412 | 12283  | 0.0618 |
| UC420, 0.7587 |                | 420 | 13.027 | 0.7587 | 2347   | 0.0118 |
| UC421, 0.3415 |                | 421 | 5.863  | 0.3415 | 7332   | 0.0369 |
| UC423, 0.3426 |                | 423 | 5.883  | 0.3426 | 4052   | 0.0204 |
| UC423, 0.4621 |                | 423 | 7.935  | 0.4621 | 2795   | 0.0141 |
| UC425, 0.4621 |                | 425 | 7.935  | 0.4621 | 7388   | 0.0372 |
| UC426, 0.9089 |                | 426 | 15.605 | 0.9089 | 9087   | 0.0457 |
| UC427, 0.4638 |                | 427 | 7.964  | 0.4638 | 3849   | 0.0194 |
| UC427, 0.8605 |                | 427 | 14.775 | 0.8605 | 4072   | 0.0205 |
| UC428, 0.8594 |                | 428 | 14.756 | 0.8594 | 4146   | 0.0208 |
| UC429, 0.3416 |                | 429 | 5.865  | 0.3416 | 7505   | 0.0377 |
| UC429, 0.3507 |                | 429 | 6.022  | 0.3507 | 3778   | 0.0190 |
| UC430, 0.9567 |                | 430 | 16.427 | 0.9567 | 107883 | 0.5425 |
| UC431, 0.3415 |                | 431 | 5.863  | 0.3415 | 5309   | 0.0267 |
| UC431, 0.4624 |                | 431 | 7.939  | 0.4624 | 2169   | 0.0109 |
| UC431, 0.9568 |                | 431 | 16.428 | 0.9568 | 25173  | 0.1266 |
| UC432, 0.9573 |                | 432 | 16.436 | 0.9573 | 6019   | 0.0303 |
| UC433, 0.3414 |                | 433 | 5.861  | 0.3414 | 7160   | 0.0360 |
| UC435, 0.3415 |                | 435 | 5.864  | 0.3415 | 6848   | 0.0344 |
| UC441, 0.3452 |                | 441 | 5.927  | 0.3452 | 30096  | 0.1513 |
| UC441, 0.8921 |                | 441 | 15.318 | 0.8921 | 3644   | 0.0183 |
| UC442, 0.3487 |                | 442 | 5.988  | 0.3487 | 5568   | 0.0280 |
| UC443, 0.3412 |                | 443 | 5.859  | 0.3412 | 11544  | 0.0581 |
| UC445, 0.3416 |                | 445 | 5.865  | 0.3416 | 6892   | 0.0347 |
| UC447, 0.3415 |                | 447 | 5.863  | 0.3415 | 4310   | 0.0217 |
| UC447, 0.8904 |                | 447 | 15.288 | 0.8904 | 5584   | 0.0281 |
| UC449, 0.3426 |                | 449 | 5.885  | 0.3426 | 4467   | 0.0224 |
| UC451, 0.3443 |                | 451 | 5.915  | 0.3443 | 3227   | 0.0162 |
| UC452, 0.8630 |                | 452 | 14.824 | 0.8630 | 2751   | 0.0138 |
| UC454, 1.1943 |                | 454 | 20.516 | 1.1943 | 2195   | 0.0110 |
| UC454, 1.2005 |                | 454 | 20.622 | 1.2005 | 2317   | 0.0116 |
| UC455, 0.4643 |                | 455 | 7.976  | 0.4643 | 5129   | 0.0257 |
| UC457, 0.3425 |                | 457 | 5.883  | 0.3425 | 7701   | 0.0386 |
| UC458, 0.8862 |                | 458 | 15.223 | 0.8862 | 3319   | 0.0167 |
| UC459, 0.3423 |                | 459 | 5.88   | 0.3423 | 22965  | 0.1153 |
| UC459, 0.4652 |                | 459 | 7.991  | 0.4652 | 1731   | 0.0087 |
| UC460, 1.0473 |                | 460 | 17.99  | 1.0473 | 3435   | 0.0172 |
| UC461, 0.3426 |                | 461 | 5.886  | 0.3426 | 8534   | 0.0428 |
| UC463, 0.3428 |                | 463 | 5.889  | 0.3428 | 4225   | 0.0212 |
| UC465, 0.3450 |                | 465 | 5.927  | 0.3450 | 2960   | 0.0149 |
| UC466, 0.9069 |                | 466 | 15.578 | 0.9069 | 8756   | 0.0439 |
| UC470, 0.8800 |                | 470 | 15.117 | 0.8800 | 5176   | 0.0260 |
| UC470, 1.1862 |                | 470 | 20.377 | 1.1862 | 3217   | 0.0161 |
| UC471, 0.3425 |                | 471 | 5.884  | 0.3425 | 5216   | 0.0262 |
| UC471, 0.8807 |                | 471 | 15.129 | 0.8807 | 2571   | 0.0129 |
| UC473, 0.3424 |                | 473 | 5.881  | 0.3424 | 43139  | 0.2165 |
| UC474, 1.0500 |                | 474 | 18.037 | 1.0500 | 4048   | 0.0203 |
| UC474, 1.1725 |                | 474 | 20.142 | 1.1725 | 2534   | 0.0127 |
| UC475, 0.3428 |                | 475 | 5.888  | 0.3428 | 17227  | 0.0865 |
| UC477, 0.3421 |                | 477 | 5.874  | 0.3421 | 4329   | 0.0218 |
| UC479, 0.8814 |                | 479 | 15.136 | 0.8814 | 3000   | 0.0151 |

|               |     |        |        |       |        |
|---------------|-----|--------|--------|-------|--------|
| UC480, 0.9064 | 480 | 15.565 | 0.9064 | 35455 | 0.1786 |
| UC481, 0.8799 | 481 | 15.109 | 0.8799 | 6051  | 0.0305 |
| UC481, 0.9063 | 481 | 15.563 | 0.9063 | 6711  | 0.0338 |
| UC482, 0.8802 | 482 | 15.114 | 0.8802 | 4240  | 0.0214 |
| UC482, 0.9066 | 482 | 15.568 | 0.9066 | 1685  | 0.0085 |
| UC483, 0.4639 | 483 | 7.966  | 0.4639 | 2942  | 0.0148 |
| UC484, 1.2168 | 484 | 20.895 | 1.2168 | 4252  | 0.0214 |
| UC485, 0.3418 | 485 | 5.869  | 0.3418 | 2218  | 0.0112 |
| UC485, 0.7101 | 485 | 12.194 | 0.7101 | 4394  | 0.0221 |
| UC485, 0.7395 | 485 | 12.699 | 0.7395 | 7774  | 0.0392 |
| UC485, 0.7701 | 485 | 13.225 | 0.7701 | 2841  | 0.0143 |
| UC485, 0.7742 | 485 | 13.295 | 0.7742 | 3047  | 0.0153 |
| UC486, 0.7408 | 486 | 12.721 | 0.7408 | 2533  | 0.0128 |
| UC487, 0.3417 | 487 | 5.868  | 0.3417 | 31996 | 0.1612 |
| UC488, 0.9072 | 488 | 15.579 | 0.9072 | 3593  | 0.0181 |
| UC488, 1.0234 | 488 | 17.574 | 1.0234 | 4518  | 0.0228 |
| UC489, 0.3420 | 489 | 5.872  | 0.3420 | 21079 | 0.1062 |
| UC490, 0.8811 | 490 | 15.13  | 0.8811 | 3477  | 0.0175 |
| UC490, 1.0047 | 490 | 17.253 | 1.0047 | 6398  | 0.0322 |
| UC491, 0.3424 | 491 | 5.879  | 0.3424 | 7261  | 0.0366 |
| UC491, 0.4636 | 491 | 7.961  | 0.4636 | 1971  | 0.0099 |
| UC491, 0.9444 | 491 | 16.218 | 0.9444 | 2155  | 0.0109 |
| UC493, 0.3430 | 493 | 5.89   | 0.3430 | 2609  | 0.0131 |
| UC495, 0.8963 | 495 | 15.391 | 0.8963 | 1526  | 0.0077 |
| UC497, 0.7443 | 497 | 12.781 | 0.7443 | 3824  | 0.0193 |
| UC501, 0.3418 | 501 | 5.869  | 0.3418 | 16136 | 0.0813 |
| UC502, 0.9068 | 502 | 15.572 | 0.9068 | 6396  | 0.0322 |
| UC503, 0.3421 | 503 | 5.874  | 0.3421 | 15021 | 0.0757 |
| UC504, 1.2170 | 504 | 20.899 | 1.2170 | 2019  | 0.0102 |
| UC505, 0.3424 | 505 | 5.879  | 0.3424 | 7344  | 0.0370 |
| UC505, 0.9013 | 505 | 15.477 | 0.9013 | 3178  | 0.0160 |
| UC506, 0.9009 | 506 | 15.505 | 0.9009 | 2190  | 0.0109 |
| UC507, 0.3426 | 507 | 5.896  | 0.3426 | 2785  | 0.0139 |
| UC507, 0.8480 | 507 | 14.594 | 0.8480 | 2633  | 0.0131 |
| UC512, 0.9035 | 512 | 15.55  | 0.9035 | 3894  | 0.0194 |
| UC513, 0.3424 | 513 | 5.892  | 0.3424 | 1335  | 0.0067 |
| UC513, 0.4682 | 513 | 8.058  | 0.4682 | 2280  | 0.0114 |
| UC513, 0.9038 | 513 | 15.554 | 0.9038 | 3220  | 0.0161 |
| UC514, 0.9032 | 514 | 15.544 | 0.9032 | 1497  | 0.0075 |
| UC515, 0.3421 | 515 | 5.888  | 0.3421 | 5022  | 0.0251 |
| UC515, 0.9026 | 515 | 15.533 | 0.9026 | 3893  | 0.0194 |
| UC516, 0.6180 | 516 | 10.635 | 0.6180 | 1856  | 0.0093 |
| UC516, 0.9027 | 516 | 15.536 | 0.9027 | 3501  | 0.0175 |
| UC517, 0.3422 | 517 | 5.89   | 0.3422 | 7677  | 0.0383 |
| UC517, 0.9024 | 517 | 15.53  | 0.9024 | 1979  | 0.0099 |
| UC518, 0.9056 | 518 | 15.586 | 0.9056 | 2745  | 0.0137 |
| UC518, 0.9653 | 518 | 16.612 | 0.9653 | 13424 | 0.0670 |
| UC519, 0.3425 | 519 | 5.894  | 0.3425 | 6031  | 0.0301 |
| UC519, 0.9667 | 519 | 16.637 | 0.9667 | 3080  | 0.0154 |
| UC521, 0.3432 | 521 | 5.907  | 0.3432 | 3436  | 0.0172 |
| UC521, 0.4653 | 521 | 8.007  | 0.4653 | 1473  | 0.0074 |
| UC523, 0.3429 | 523 | 5.902  | 0.3429 | 2668  | 0.0133 |
| UC523, 0.9035 | 523 | 15.549 | 0.9035 | 2919  | 0.0146 |
| UC524, 0.9029 | 524 | 15.539 | 0.9029 | 2562  | 0.0128 |
| UC525, 0.3428 | 525 | 5.9    | 0.3428 | 2711  | 0.0135 |
| UC525, 0.9042 | 525 | 15.562 | 0.9042 | 1697  | 0.0085 |
| UC525, 1.1509 | 525 | 19.807 | 1.1509 | 7739  | 0.0386 |
| UC526, 0.9011 | 526 | 15.508 | 0.9011 | 6545  | 0.0327 |
| UC527, 0.3425 | 527 | 5.894  | 0.3425 | 3437  | 0.0172 |
| UC527, 0.9018 | 527 | 15.52  | 0.9018 | 3996  | 0.0200 |
| UC529, 0.3426 | 529 | 5.896  | 0.3426 | 2944  | 0.0147 |
| UC530, 0.9048 | 530 | 15.571 | 0.9048 | 1619  | 0.0081 |
| UC531, 0.3424 | 531 | 5.892  | 0.3424 | 3870  | 0.0193 |
| UC531, 0.9040 | 531 | 15.557 | 0.9040 | 1312  | 0.0066 |
| UC532, 0.9038 | 532 | 15.555 | 0.9038 | 9455  | 0.0472 |
| UC533, 0.3426 | 533 | 5.897  | 0.3426 | 4512  | 0.0225 |
| UC533, 0.9042 | 533 | 15.561 | 0.9042 | 2628  | 0.0131 |
| UC534, 0.9037 | 534 | 15.553 | 0.9037 | 3134  | 0.0156 |
| UC535, 0.3436 | 535 | 5.893  | 0.3436 | 2174  | 0.0104 |
| UC535, 0.9039 | 535 | 15.504 | 0.9039 | 2325  | 0.0111 |
| UC536, 0.9045 | 536 | 15.514 | 0.9045 | 1844  | 0.0088 |
| UC537, 0.9021 | 537 | 15.472 | 0.9021 | 1576  | 0.0075 |
| UC539, 0.3433 | 539 | 5.889  | 0.3433 | 1195  | 0.0057 |
| UC541, 0.3431 | 541 | 5.885  | 0.3431 | 5853  | 0.0279 |
| UC541, 0.4654 | 541 | 7.983  | 0.4654 | 1153  | 0.0055 |
| UC541, 0.9049 | 541 | 15.521 | 0.9049 | 4703  | 0.0224 |
| UC541, 0.9146 | 541 | 15.687 | 0.9146 | 3390  | 0.0162 |
| UC542, 0.9044 | 542 | 15.513 | 0.9044 | 1501  | 0.0072 |
| UC543, 0.3431 | 543 | 5.884  | 0.3431 | 15769 | 0.0753 |
| UC543, 0.9044 | 543 | 15.513 | 0.9044 | 5549  | 0.0265 |
| UC544, 0.9044 | 544 | 15.513 | 0.9044 | 4525  | 0.0216 |
| UC545, 0.3433 | 545 | 5.889  | 0.3433 | 8879  | 0.0424 |
| UC546, 0.9045 | 546 | 15.514 | 0.9045 | 1238  | 0.0059 |
| UC547, 0.3435 | 547 | 5.891  | 0.3435 | 4155  | 0.0198 |
| UC548, 0.9056 | 548 | 15.533 | 0.9056 | 2141  | 0.0102 |
| UC549, 0.3439 | 549 | 5.898  | 0.3439 | 2580  | 0.0123 |
| UC549, 0.9049 | 549 | 15.52  | 0.9049 | 1074  | 0.0051 |



|               |     |        |        |       |        |
|---------------|-----|--------|--------|-------|--------|
| UC550, 0.9076 | 550 | 15.567 | 0.9076 | 3127  | 0.0149 |
| UC551, 0.4652 | 551 | 7.979  | 0.4652 | 1970  | 0.0094 |
| UC552, 0.9050 | 552 | 15.522 | 0.9050 | 1816  | 0.0087 |
| UC553, 0.9045 | 553 | 15.514 | 0.9045 | 1003  | 0.0048 |
| UC553, 0.9558 | 553 | 16.394 | 0.9558 | 5021  | 0.0240 |
| UC554, 0.9044 | 554 | 15.512 | 0.9044 | 2815  | 0.0134 |
| UC554, 0.9563 | 554 | 16.402 | 0.9563 | 13084 | 0.0624 |
| UC555, 0.3433 | 555 | 5.888  | 0.3433 | 5473  | 0.0261 |
| UC557, 0.3432 | 557 | 5.886  | 0.3432 | 33759 | 0.1611 |
| UC557, 0.7603 | 557 | 13.04  | 0.7603 | 1936  | 0.0092 |
| UC559, 0.3435 | 559 | 5.891  | 0.3435 | 14024 | 0.0669 |
| UC560, 0.9049 | 560 | 15.521 | 0.9049 | 1077  | 0.0051 |
| UC561, 0.3436 | 561 | 5.894  | 0.3436 | 5055  | 0.0241 |
| UC563, 0.3436 | 563 | 5.893  | 0.3436 | 1954  | 0.0093 |
| UC563, 0.9042 | 563 | 15.509 | 0.9042 | 1230  | 0.0059 |
| UC564, 0.9051 | 564 | 15.429 | 0.9051 | 1499  | 0.0074 |
| UC565, 0.3436 | 565 | 5.857  | 0.3436 | 1010  | 0.0050 |
| UC565, 0.9053 | 565 | 15.433 | 0.9053 | 1276  | 0.0063 |
| UC565, 0.9570 | 565 | 16.314 | 0.9570 | 1545  | 0.0076 |
| UC571, 0.3432 | 571 | 5.85   | 0.3432 | 36738 | 0.1817 |
| UC573, 0.3435 | 573 | 5.855  | 0.3435 | 24692 | 0.1221 |
| UC574, 0.9059 | 574 | 15.443 | 0.9059 | 1074  | 0.0053 |
| UC575, 0.3436 | 575 | 5.858  | 0.3436 | 8085  | 0.0400 |
| UC575, 1.2481 | 575 | 21.276 | 1.2481 | 8333  | 0.0412 |
| UC576, 0.3436 | 576 | 5.857  | 0.3436 | 1342  | 0.0066 |
| UC576, 1.2474 | 576 | 21.264 | 1.2474 | 18671 | 0.0923 |
| UC577, 0.3436 | 577 | 5.857  | 0.3436 | 3056  | 0.0151 |
| UC578, 0.9728 | 578 | 16.583 | 0.9728 | 1976  | 0.0098 |
| UC578, 0.9789 | 578 | 16.688 | 0.9789 | 1386  | 0.0069 |
| UC579, 0.3438 | 579 | 5.861  | 0.3438 | 1376  | 0.0068 |
| UC580, 1.7415 | 580 | 29.688 | 1.7415 | 3883  | 0.0192 |
| UC581, 0.4474 | 581 | 7.626  | 0.4474 | 2290  | 0.0113 |
| UC581, 1.2241 | 581 | 20.868 | 1.2241 | 3758  | 0.0186 |
| UC582, 0.9645 | 582 | 16.441 | 0.9645 | 3067  | 0.0152 |
| UC582, 0.9701 | 582 | 16.538 | 0.9701 | 1333  | 0.0066 |
| UC583, 0.3434 | 583 | 5.854  | 0.3434 | 1980  | 0.0098 |
| UC585, 0.3433 | 585 | 5.852  | 0.3433 | 19034 | 0.0941 |
| UC587, 0.3434 | 587 | 5.854  | 0.3434 | 17810 | 0.0881 |
| UC588, 0.7655 | 588 | 13.05  | 0.7655 | 1192  | 0.0059 |
| UC589, 0.3436 | 589 | 5.857  | 0.3436 | 8577  | 0.0424 |
| UC591, 0.3437 | 591 | 5.859  | 0.3437 | 3025  | 0.0150 |
| UC593, 0.3430 | 593 | 5.889  | 0.3430 | 1806  | 0.0091 |
| UC597, 0.3427 | 597 | 5.884  | 0.3427 | 1806  | 0.0091 |
| UC599, 0.3426 | 599 | 5.882  | 0.3426 | 7399  | 0.0374 |
| UC599, 0.8636 | 599 | 14.828 | 0.8636 | 3132  | 0.0158 |
| UC601, 0.3426 | 601 | 5.883  | 0.3426 | 15522 | 0.0784 |
| UC603, 0.3429 | 603 | 5.887  | 0.3429 | 8899  | 0.0449 |
| UC605, 0.3432 | 605 | 5.892  | 0.3432 | 3692  | 0.0186 |
| UC607, 0.3430 | 607 | 5.89   | 0.3430 | 2188  | 0.0110 |
| UC608, 0.8986 | 608 | 15.429 | 0.8986 | 1365  | 0.0069 |
| UC609, 0.3429 | 609 | 5.888  | 0.3429 | 1267  | 0.0064 |
| UC611, 0.3428 | 611 | 5.886  | 0.3428 | 3063  | 0.0155 |
| UC611, 0.4658 | 611 | 7.997  | 0.4658 | 2337  | 0.0118 |
| UC613, 0.3427 | 613 | 5.884  | 0.3427 | 3709  | 0.0187 |
| UC615, 0.3427 | 615 | 5.885  | 0.3427 | 8829  | 0.0446 |
| UC616, 0.3429 | 616 | 5.888  | 0.3429 | 1303  | 0.0066 |
| UC618, 0.3431 | 618 | 5.891  | 0.3431 | 1179  | 0.0060 |
| UC619, 0.3434 | 619 | 5.896  | 0.3434 | 4025  | 0.0203 |
| UC619, 0.4640 | 619 | 7.967  | 0.4640 | 1160  | 0.0059 |
| UC621, 0.3436 | 621 | 5.9    | 0.3436 | 2325  | 0.0117 |
| UC623, 0.3422 | 623 | 5.895  | 0.3422 | 2170  | 0.0106 |
| UC624, 1.2399 | 624 | 21.361 | 1.2399 | 1008  | 0.0049 |
| UC625, 0.3421 | 625 | 5.894  | 0.3421 | 3136  | 0.0153 |
| UC627, 0.3422 | 627 | 5.895  | 0.3422 | 4935  | 0.0241 |
| UC629, 0.3421 | 629 | 5.894  | 0.3421 | 7196  | 0.0351 |
| UC631, 0.3423 | 631 | 5.898  | 0.3423 | 4856  | 0.0237 |
| UC632, 0.3422 | 632 | 5.895  | 0.3422 | 795   | 0.0039 |
| UC633, 0.3423 | 633 | 5.898  | 0.3423 | 2948  | 0.0144 |
| UC635, 0.3426 | 635 | 5.903  | 0.3426 | 1892  | 0.0092 |
| UC639, 0.3422 | 639 | 5.896  | 0.3422 | 2738  | 0.0134 |
| UC641, 0.3423 | 641 | 5.897  | 0.3423 | 7333  | 0.0358 |
| UC643, 0.3425 | 643 | 5.901  | 0.3425 | 6410  | 0.0313 |
| UC645, 0.3425 | 645 | 5.901  | 0.3425 | 3516  | 0.0172 |
| UC647, 0.3429 | 647 | 5.907  | 0.3429 | 2156  | 0.0105 |
| UC648, 0.3423 | 648 | 5.898  | 0.3423 | 549   | 0.0027 |
| UC649, 0.3427 | 649 | 5.904  | 0.3427 | 1654  | 0.0081 |
| UC649, 0.4641 | 649 | 7.996  | 0.4641 | 1707  | 0.0083 |
| UC650, 0.3424 | 650 | 5.899  | 0.3424 | 547   | 0.0027 |
| UC653, 0.3402 | 653 | 5.913  | 0.3402 | 1562  | 0.0076 |
| UC655, 0.3402 | 655 | 5.914  | 0.3402 | 7835  | 0.0383 |
| UC656, 0.3404 | 656 | 5.916  | 0.3404 | 1390  | 0.0068 |
| UC657, 0.3404 | 657 | 5.917  | 0.3404 | 5663  | 0.0277 |
| UC659, 0.3406 | 659 | 5.92   | 0.3406 | 3136  | 0.0153 |
| UC661, 0.3408 | 661 | 5.923  | 0.3408 | 1583  | 0.0077 |
| UC661, 1.2551 | 661 | 21.817 | 1.2551 | 5710  | 0.0279 |
| UC665, 0.3408 | 665 | 5.924  | 0.3408 | 710   | 0.0035 |
| UC669, 0.3404 | 669 | 5.916  | 0.3404 | 5572  | 0.0273 |

|               |     |        |        |      |        |
|---------------|-----|--------|--------|------|--------|
| UC671, 0.3405 | 671 | 5.919  | 0.3405 | 4622 | 0.0226 |
| UC673, 0.3407 | 673 | 5.922  | 0.3407 | 2538 | 0.0124 |
| UC675, 0.3409 | 675 | 5.925  | 0.3409 | 1727 | 0.0085 |
| UC677, 0.3405 | 677 | 5.919  | 0.3405 | 1271 | 0.0062 |
| UC679, 0.3409 | 679 | 5.925  | 0.3409 | 1186 | 0.0058 |
| UC679, 0.4644 | 679 | 8.072  | 0.4644 | 1350 | 0.0066 |
| UC681, 0.3410 | 681 | 5.914  | 0.341  | 1303 | 0.0062 |
| UC683, 0.3410 | 683 | 5.914  | 0.341  | 2878 | 0.0136 |
| UC684, 0.3413 | 684 | 5.918  | 0.341  | 989  | 0.0047 |
| UC685, 0.3411 | 685 | 5.915  | 0.341  | 3685 | 0.0174 |
| UC687, 0.3413 | 687 | 5.919  | 0.341  | 2407 | 0.0114 |
| UC689, 0.3413 | 689 | 5.919  | 0.341  | 2378 | 0.0112 |
| UC691, 0.3413 | 691 | 5.918  | 0.341  | 892  | 0.0042 |
| UC692, 0.3413 | 692 | 5.919  | 0.341  | 763  | 0.0036 |
| UC695, 0.3412 | 695 | 5.917  | 0.341  | 1866 | 0.0088 |
| UC695, 0.8985 | 695 | 15.581 | 0.899  | 996  | 0.0047 |
| UC697, 0.3412 | 697 | 5.916  | 0.341  | 1688 | 0.0080 |
| UC698, 0.3413 | 698 | 5.918  | 0.341  | 832  | 0.0039 |
| UC699, 0.3413 | 699 | 5.918  | 0.341  | 2252 | 0.0106 |
| UC701, 0.3413 | 701 | 5.919  | 0.341  | 1775 | 0.0084 |
| UC703, 0.3413 | 703 | 5.919  | 0.341  | 1386 | 0.0065 |
| UC704, 0.3412 | 704 | 5.917  | 0.341  | 705  | 0.0033 |
| UC705, 0.3414 | 705 | 5.921  | 0.341  | 1664 | 0.0079 |
| UC706, 0.3413 | 706 | 5.919  | 0.341  | 735  | 0.0035 |
| UC707, 0.3414 | 707 | 5.92   | 0.341  | 1708 | 0.0081 |
| UC709, 0.3402 | 709 | 5.871  | 0.3402 | 2157 | 0.0104 |
| UC710, 0.3402 | 710 | 5.871  | 0.3402 | 934  | 0.0045 |
| UC711, 0.3404 | 711 | 5.874  | 0.3404 | 3533 | 0.0170 |
| UC713, 0.3405 | 713 | 5.875  | 0.3405 | 2027 | 0.0097 |
| UC715, 0.3405 | 715 | 5.875  | 0.3405 | 1477 | 0.0071 |
| UC717, 0.3404 | 717 | 5.874  | 0.3404 | 1648 | 0.0079 |
| UC718, 0.3403 | 718 | 5.872  | 0.3403 | 944  | 0.0045 |
| UC719, 0.3405 | 719 | 5.876  | 0.3405 | 1162 | 0.0056 |
| UC719, 1.0009 | 719 | 17.27  | 1.0009 | 2932 | 0.0141 |
| UC719, 1.0161 | 719 | 17.532 | 1.0161 | 4775 | 0.0230 |
| UC720, 0.3405 | 720 | 5.875  | 0.3405 | 804  | 0.0039 |
| UC723, 0.3405 | 723 | 5.875  | 0.3405 | 1752 | 0.0084 |
| UC725, 0.3404 | 725 | 5.874  | 0.3404 | 4120 | 0.0198 |
| UC727, 0.3406 | 727 | 5.877  | 0.3406 | 2422 | 0.0116 |
| UC729, 0.3407 | 729 | 5.878  | 0.3407 | 1269 | 0.0061 |
| UC731, 0.3406 | 731 | 5.877  | 0.3406 | 1226 | 0.0059 |
| UC733, 0.3407 | 733 | 5.878  | 0.3407 | 1286 | 0.0062 |
| UC734, 0.3408 | 734 | 5.881  | 0.3408 | 875  | 0.0042 |
| UC735, 0.3408 | 735 | 5.881  | 0.3408 | 748  | 0.0036 |
| UC737, 0.3406 | 737 | 5.877  | 0.3406 | 1401 | 0.0067 |
| UC739, 0.3384 | 739 | 5.892  | 0.3384 | 2548 | 0.0122 |
| UC740, 0.3385 | 740 | 5.893  | 0.3385 | 1258 | 0.0060 |
| UC741, 0.3386 | 741 | 5.895  | 0.3386 | 2792 | 0.0134 |
| UC743, 0.3387 | 743 | 5.897  | 0.3387 | 1396 | 0.0067 |
| UC745, 0.3384 | 745 | 5.892  | 0.3384 | 1054 | 0.0050 |
| UC747, 0.3384 | 747 | 5.892  | 0.3384 | 1129 | 0.0054 |
| UC748, 0.3387 | 748 | 5.896  | 0.3387 | 900  | 0.0043 |
| UC489, 0.3388 | 489 | 5.898  | 0.3388 | 964  | 0.0046 |
| UC751, 0.3387 | 751 | 5.897  | 0.3387 | 598  | 0.0029 |
| UC752, 0.3385 | 752 | 5.894  | 0.3385 | 684  | 0.0033 |
| UC752, 0.8383 | 752 | 14.594 | 0.8383 | 2746 | 0.0132 |
| UC753, 0.3386 | 753 | 5.895  | 0.3386 | 2275 | 0.0109 |
| UC755, 0.3385 | 755 | 5.894  | 0.3385 | 2448 | 0.0117 |
| UC756, 0.3389 | 756 | 5.9    | 0.3389 | 642  | 0.0031 |
| UC759, 0.3386 | 759 | 5.895  | 0.3386 | 1277 | 0.0061 |
| UC760, 0.3388 | 760 | 5.899  | 0.3388 | 1039 | 0.0050 |
| UC760, 0.8437 | 760 | 14.689 | 0.8437 | 5175 | 0.0248 |
| UC761, 0.3388 | 761 | 5.899  | 0.3388 | 1052 | 0.0050 |
| UC761, 0.8442 | 761 | 14.697 | 0.8442 | 1690 | 0.0081 |
| UC762, 0.3389 | 762 | 5.9    | 0.3389 | 852  | 0.0041 |
| UC763, 0.3388 | 763 | 5.899  | 0.3388 | 733  | 0.0035 |
| UC764, 0.3388 | 764 | 5.898  | 0.3388 | 516  | 0.0025 |
| UC765, 0.3389 | 765 | 5.9    | 0.3389 | 1246 | 0.0060 |
| UC766, 0.3386 | 766 | 5.895  | 0.3386 | 721  | 0.0035 |
| UC767, 0.3382 | 767 | 5.884  | 0.3382 | 2646 | 0.0130 |
| UC769, 0.3383 | 769 | 5.885  | 0.3383 | 2578 | 0.0126 |
| UC771, 0.3385 | 771 | 5.889  | 0.3385 | 1246 | 0.0061 |
| UC773, 0.3384 | 773 | 5.888  | 0.3384 | 1246 | 0.0061 |
| UC774, 0.3381 | 774 | 5.883  | 0.3381 | 1143 | 0.0056 |
| UC775, 0.3384 | 775 | 5.887  | 0.3384 | 1773 | 0.0087 |
| UC776, 0.3384 | 776 | 5.888  | 0.3384 | 1272 | 0.0062 |
| UC777, 0.3385 | 777 | 5.89   | 0.3385 | 918  | 0.0045 |
| UC781, 0.3383 | 781 | 5.886  | 0.3383 | 2061 | 0.0101 |
| UC783, 0.3384 | 783 | 5.887  | 0.3384 | 2451 | 0.0120 |
| UC785, 0.3385 | 785 | 5.889  | 0.3385 | 1478 | 0.0072 |
| UC787, 0.3384 | 787 | 5.887  | 0.3384 | 688  | 0.0034 |
| UC788, 0.3384 | 788 | 5.887  | 0.3384 | 929  | 0.0045 |
| UC789, 0.3383 | 789 | 5.885  | 0.3383 | 1350 | 0.0066 |
| UC790, 0.3385 | 790 | 5.89   | 0.3385 | 737  | 0.0036 |
| UC791, 0.3387 | 791 | 5.893  | 0.3387 | 828  | 0.0041 |
| UC793, 0.3384 | 793 | 5.888  | 0.3384 | 1684 | 0.0082 |
| UC795, 0.3384 | 795 | 5.887  | 0.3384 | 2126 | 0.0104 |

|               |     |        |        |       |        |
|---------------|-----|--------|--------|-------|--------|
| UC795, 0.9248 | 795 | 16.089 | 0.9248 | 55694 | 0.2727 |
| UC796, 0.3348 | 796 | 5.904  | 0.3348 | 1443  | 0.0068 |
| UC796, 0.9228 | 796 | 16.271 | 0.9228 | 17192 | 0.0808 |
| UC797, 0.3350 | 797 | 5.907  | 0.3350 | 2647  | 0.0124 |
| UC797, 0.9219 | 797 | 16.255 | 0.9219 | 8963  | 0.0421 |
| UC799, 0.3352 | 799 | 5.911  | 0.3352 | 1237  | 0.0058 |
| UC801, 0.3351 | 801 | 5.909  | 0.3351 | 1097  | 0.0052 |
| UC802, 0.3350 | 802 | 5.907  | 0.3350 | 973   | 0.0046 |
| UC803, 0.3352 | 803 | 5.911  | 0.3352 | 1423  | 0.0067 |
| UC804, 0.3352 | 804 | 5.911  | 0.3352 | 1069  | 0.0050 |
| UC806, 0.3354 | 806 | 5.913  | 0.3354 | 777   | 0.0036 |
| UC807, 0.3350 | 807 | 5.907  | 0.3350 | 1201  | 0.0056 |
| UC808, 0.3350 | 808 | 5.907  | 0.3350 | 809   | 0.0038 |
| UC809, 0.3350 | 809 | 5.907  | 0.3350 | 3118  | 0.0146 |
| UC810, 0.3352 | 810 | 5.91   | 0.3352 | 1642  | 0.0077 |
| UC811, 0.3352 | 811 | 5.91   | 0.3352 | 2301  | 0.0108 |
| UC813, 0.3354 | 813 | 5.913  | 0.3354 | 1301  | 0.0061 |
| UC815, 0.3352 | 815 | 5.911  | 0.3352 | 803   | 0.0038 |
| UC816, 0.3351 | 816 | 5.909  | 0.3351 | 969   | 0.0046 |
| UC817, 0.3354 | 817 | 5.913  | 0.3354 | 1561  | 0.0073 |
| UC817, 0.9239 | 817 | 16.29  | 0.9239 | 4992  | 0.0235 |
| UC818, 0.3354 | 818 | 5.914  | 0.3354 | 869   | 0.0041 |
| UC821, 0.3352 | 821 | 5.91   | 0.3352 | 1059  | 0.0050 |
| UC822, 0.8797 | 822 | 15.511 | 0.8797 | 1415  | 0.0066 |
| UC823, 0.3352 | 823 | 5.911  | 0.3352 | 2204  | 0.0104 |
| UC824, 0.3354 | 824 | 5.913  | 0.3354 | 1233  | 0.0058 |
| UC825, 0.3359 | 825 | 5.863  | 0.3359 | 2124  | 0.0100 |
| UC827, 0.3359 | 827 | 5.864  | 0.3359 | 1280  | 0.0060 |
| UC829, 0.336  | 829 | 5.865  | 0.3360 | 628   | 0.0029 |
| UC829, 0.8788 | 829 | 15.339 | 0.8788 | 1980  | 0.0093 |
| UC830, 0.3357 | 830 | 5.86   | 0.3357 | 1070  | 0.0050 |
| UC831, 0.3359 | 831 | 5.864  | 0.3359 | 987   | 0.0046 |
| UC832, 0.3359 | 832 | 5.864  | 0.3359 | 992   | 0.0046 |
| UC833, 0.3357 | 833 | 5.859  | 0.3357 | 852   | 0.0040 |
| UC834, 0.3359 | 834 | 5.863  | 0.3359 | 552   | 0.0026 |
| UC836, 0.3355 | 836 | 5.857  | 0.3355 | 472   | 0.0022 |
| UC836, 0.8791 | 836 | 15.345 | 0.8791 | 1318  | 0.0062 |
| UC837, 0.3357 | 837 | 5.859  | 0.3357 | 1874  | 0.0088 |
| UC838, 0.3358 | 838 | 5.862  | 0.3358 | 1297  | 0.0061 |
| UC839, 0.3359 | 839 | 5.864  | 0.3359 | 1878  | 0.0088 |
| UC840, 0.336  | 840 | 5.865  | 0.3360 | 966   | 0.0045 |
| UC841, 0.3362 | 841 | 5.868  | 0.3362 | 1290  | 0.0060 |
| UC843, 0.3361 | 843 | 5.867  | 0.3361 | 890   | 0.0042 |
| UC844, 0.3362 | 844 | 5.868  | 0.3362 | 854   | 0.0040 |
| UC845, 0.3361 | 845 | 5.866  | 0.3361 | 1046  | 0.0049 |
| UC846, 0.336  | 846 | 5.865  | 0.3360 | 635   | 0.0030 |
| UC847, 0.3361 | 847 | 5.867  | 0.3361 | 919   | 0.0043 |
| UC849, 0.3361 | 849 | 5.867  | 0.3361 | 705   | 0.0033 |
| UC851, 0.3361 | 851 | 5.866  | 0.3361 | 1368  | 0.0064 |
| UC852, 0.3362 | 852 | 5.869  | 0.3362 | 1081  | 0.0051 |
| UC853, 0.3361 | 853 | 5.867  | 0.3361 | 1685  | 0.0079 |
| UC854, 0.3352 | 854 | 5.87   | 0.3352 | 872   | 0.0038 |
| UC855, 0.3351 | 855 | 5.868  | 0.3351 | 1088  | 0.0047 |
| UC857, 0.335  | 857 | 5.866  | 0.3350 | 746   | 0.0032 |
| UC858, 0.3352 | 858 | 5.87   | 0.3352 | 1088  | 0.0047 |
| UC859, 0.3352 | 859 | 5.87   | 0.3352 | 1189  | 0.0051 |
| UC860, 0.3352 | 860 | 5.869  | 0.3352 | 934   | 0.0040 |
| UC861, 0.3353 | 861 | 5.872  | 0.3353 | 946   | 0.0041 |
| UC862, 0.3356 | 862 | 5.876  | 0.3356 | 621   | 0.0027 |
| UC863, 0.3351 | 863 | 5.868  | 0.3351 | 814   | 0.0035 |
| UC864, 0.3351 | 864 | 5.868  | 0.3351 | 524   | 0.0023 |
| UC865, 0.3352 | 865 | 5.87   | 0.3352 | 1304  | 0.0056 |
| UC866, 0.3354 | 866 | 5.873  | 0.3354 | 1198  | 0.0052 |
| UC867, 0.3353 | 867 | 5.871  | 0.3353 | 1552  | 0.0067 |
| UC868, 0.3354 | 868 | 5.873  | 0.3354 | 771   | 0.0033 |
| UC869, 0.3352 | 869 | 5.87   | 0.3352 | 1016  | 0.0044 |
| UC871, 0.3354 | 871 | 5.873  | 0.3354 | 1020  | 0.0044 |
| UC873, 0.3353 | 873 | 5.871  | 0.3353 | 1104  | 0.0048 |
| UC874, 0.3356 | 874 | 5.877  | 0.3356 | 888   | 0.0038 |
| UC875, 0.3354 | 875 | 5.874  | 0.3354 | 838   | 0.0036 |
| UC877, 0.3354 | 877 | 5.873  | 0.3354 | 878   | 0.0038 |
| UC878, 0.3353 | 878 | 5.872  | 0.3353 | 690   | 0.0030 |
| UC879, 0.3354 | 879 | 5.874  | 0.3354 | 1227  | 0.0053 |
| UC880, 0.3354 | 880 | 5.874  | 0.3354 | 1011  | 0.0044 |
| UC881, 0.3356 | 881 | 5.876  | 0.3356 | 1566  | 0.0068 |
| UC883, 0.3333 | 883 | 5.878  | 0.3333 | 871   | 0.0040 |
| UC885, 0.3334 | 885 | 5.879  | 0.3334 | 764   | 0.0035 |
| UC887, 0.3334 | 887 | 5.879  | 0.3334 | 976   | 0.0044 |
| UC888, 0.3334 | 888 | 5.88   | 0.3334 | 731   | 0.0033 |
| UC889, 0.3334 | 889 | 5.88   | 0.3334 | 771   | 0.0035 |
| UC891, 0.3335 | 891 | 5.881  | 0.3335 | 995   | 0.0045 |
| UC892, 0.333  | 892 | 5.873  | 0.3330 | 657   | 0.0030 |
| UC893, 0.3334 | 893 | 5.879  | 0.3334 | 2089  | 0.0095 |
| UC895, 0.3337 | 895 | 5.884  | 0.3337 | 1250  | 0.0057 |
| UC896, 0.3338 | 896 | 5.886  | 0.3338 | 792   | 0.0036 |
| UC897, 0.3338 | 897 | 5.887  | 0.3338 | 907   | 0.0041 |
| UC898, 0.3335 | 898 | 5.881  | 0.3335 | 600   | 0.0027 |

|                |      |       |        |      |        |
|----------------|------|-------|--------|------|--------|
| UC899, 0.3334  | 899  | 5.88  | 0.3334 | 601  | 0.0027 |
| UC900, 0.3335  | 900  | 5.881 | 0.3335 | 1226 | 0.0056 |
| UC901, 0.3335  | 901  | 5.882 | 0.3335 | 1274 | 0.0058 |
| UC902, 0.3335  | 902  | 5.882 | 0.3335 | 918  | 0.0042 |
| UC903, 0.3338  | 903  | 5.887 | 0.3338 | 690  | 0.0031 |
| UC905, 0.3335  | 905  | 5.882 | 0.3335 | 555  | 0.0025 |
| UC906, 0.3339  | 906  | 5.888 | 0.3339 | 491  | 0.0022 |
| UC907, 0.3337  | 907  | 5.885 | 0.3337 | 1451 | 0.0066 |
| UC908, 0.3338  | 908  | 5.886 | 0.3338 | 916  | 0.0042 |
| UC909, 0.3339  | 909  | 5.888 | 0.3339 | 1311 | 0.0059 |
| UC910, 0.3337  | 910  | 5.885 | 0.3337 | 561  | 0.0025 |
| UC911, 0.3338  | 911  | 5.887 | 0.3338 | 905  | 0.0041 |
| UC913, 0.3286  | 913  | 5.902 | 0.3286 | 723  | 0.0032 |
| UC914, 0.3286  | 914  | 5.901 | 0.3286 | 709  | 0.0031 |
| UC915, 0.3287  | 915  | 5.904 | 0.3287 | 972  | 0.0043 |
| UC916, 0.3287  | 916  | 5.904 | 0.3287 | 1096 | 0.0048 |
| UC917, 0.3287  | 917  | 5.904 | 0.3287 | 759  | 0.0033 |
| UC920, 0.3287  | 920  | 5.903 | 0.3287 | 538  | 0.0024 |
| UC921, 0.3288  | 921  | 5.906 | 0.3288 | 1039 | 0.0046 |
| UC922, 0.3288  | 922  | 5.905 | 0.3288 | 1248 | 0.0055 |
| UC923, 0.3289  | 923  | 5.907 | 0.3289 | 1654 | 0.0072 |
| UC925, 0.329   | 925  | 5.909 | 0.3290 | 645  | 0.0028 |
| UC929, 0.329   | 929  | 5.908 | 0.3290 | 967  | 0.0042 |
| UC930, 0.329   | 930  | 5.908 | 0.3290 | 651  | 0.0029 |
| UC931, 0.3291  | 931  | 5.911 | 0.3291 | 496  | 0.0022 |
| UC935, 0.3288  | 935  | 5.906 | 0.3288 | 639  | 0.0028 |
| UC936, 0.329   | 936  | 5.909 | 0.3290 | 739  | 0.0032 |
| UC937, 0.3292  | 937  | 5.912 | 0.3292 | 937  | 0.0041 |
| UC939, 0.3289  | 939  | 5.907 | 0.3289 | 632  | 0.0028 |
| UC941, 0.3257  | 941  | 5.927 | 0.3257 | 883  | 0.0030 |
| UC942, 0.3258  | 942  | 5.93  | 0.3258 | 1111 | 0.0038 |
| UC943, 0.3258  | 943  | 5.929 | 0.3258 | 1807 | 0.0062 |
| UC944, 0.326   | 944  | 5.934 | 0.3260 | 1218 | 0.0042 |
| UC945, 0.3257  | 945  | 5.927 | 0.3257 | 993  | 0.0034 |
| UC946, 0.3262  | 946  | 5.936 | 0.3262 | 812  | 0.0028 |
| UC947, 0.3258  | 947  | 5.929 | 0.3258 | 821  | 0.0028 |
| UC948, 0.3257  | 948  | 5.928 | 0.3257 | 676  | 0.0023 |
| UC949, 0.3256  | 949  | 5.926 | 0.3256 | 1257 | 0.0043 |
| UC950, 0.3259  | 950  | 5.931 | 0.3259 | 1539 | 0.0053 |
| UC951, 0.3259  | 951  | 5.932 | 0.3259 | 2063 | 0.0071 |
| UC953, 0.326   | 953  | 5.934 | 0.3260 | 882  | 0.0030 |
| UC955, 0.3259  | 955  | 5.932 | 0.3259 | 797  | 0.0027 |
| UC956, 0.3258  | 956  | 5.929 | 0.3258 | 1089 | 0.0038 |
| UC957, 0.3259  | 957  | 5.931 | 0.3259 | 1731 | 0.0060 |
| UC958, 0.326   | 958  | 5.934 | 0.3260 | 1100 | 0.0038 |
| UC959, 0.326   | 959  | 5.934 | 0.3260 | 1173 | 0.0040 |
| UC963, 0.326   | 963  | 5.934 | 0.3260 | 1015 | 0.0035 |
| UC964, 0.3262  | 964  | 5.936 | 0.3262 | 1559 | 0.0054 |
| UC965, 0.3259  | 965  | 5.932 | 0.3259 | 1951 | 0.0067 |
| UC966, 0.3262  | 966  | 5.937 | 0.3262 | 1152 | 0.0040 |
| UC967, 0.3263  | 967  | 5.938 | 0.3263 | 1104 | 0.0038 |
| UC969, 0.3261  | 969  | 5.935 | 0.3261 | 880  | 0.0030 |
| UC970, 0.3255  | 970  | 5.984 | 0.3255 | 1539 | 0.0037 |
| UC971, 0.3269  | 971  | 6.01  | 0.3269 | 2306 | 0.0056 |
| UC972, 0.3269  | 972  | 6.01  | 0.3269 | 1980 | 0.0048 |
| UC973, 0.3269  | 973  | 6.01  | 0.3269 | 1960 | 0.0048 |
| UC974, 0.327   | 974  | 6.011 | 0.3270 | 1522 | 0.0037 |
| UC975, 0.3268  | 975  | 6.009 | 0.3268 | 1605 | 0.0039 |
| UC976, 0.3262  | 976  | 5.998 | 0.3262 | 1542 | 0.0037 |
| UC977, 0.3268  | 977  | 6.008 | 0.3268 | 2635 | 0.0064 |
| UC978, 0.3268  | 978  | 6.009 | 0.3268 | 2378 | 0.0058 |
| UC979, 0.3268  | 979  | 6.008 | 0.3268 | 3032 | 0.0074 |
| UC980, 0.3266  | 980  | 6.004 | 0.3266 | 2132 | 0.0052 |
| UC981, 0.3271  | 981  | 6.013 | 0.3271 | 2140 | 0.0052 |
| UC982, 0.3271  | 982  | 6.014 | 0.3271 | 1178 | 0.0029 |
| UC983, 0.3268  | 983  | 6.009 | 0.3268 | 1709 | 0.0041 |
| UC984, 0.3269  | 984  | 6.01  | 0.3269 | 1600 | 0.0039 |
| UC985, 0.327   | 985  | 6.011 | 0.3270 | 2383 | 0.0058 |
| UC986, 0.327   | 986  | 6.011 | 0.3270 | 2329 | 0.0056 |
| UC987, 0.3264  | 987  | 6.001 | 0.3264 | 1884 | 0.0046 |
| UC988, 0.3274  | 988  | 6.019 | 0.3274 | 1503 | 0.0036 |
| UC989, 0.3272  | 989  | 6.015 | 0.3272 | 1365 | 0.0033 |
| UC990, 0.3273  | 990  | 6.017 | 0.3273 | 1352 | 0.0033 |
| UC991, 0.3264  | 991  | 6     | 0.3264 | 2878 | 0.0070 |
| UC992, 0.3269  | 992  | 6.01  | 0.3269 | 2583 | 0.0063 |
| UC993, 0.3272  | 993  | 6.016 | 0.3272 | 3277 | 0.0079 |
| UC994, 0.3273  | 994  | 6.018 | 0.3273 | 1980 | 0.0048 |
| UC995, 0.3271  | 995  | 6.013 | 0.3271 | 2533 | 0.0061 |
| UC996, 0.3255  | 996  | 5.984 | 0.3255 | 1387 | 0.0034 |
| UC997, 0.3267  | 997  | 6.007 | 0.3267 | 1325 | 0.0032 |
| UC998, 0.327   | 998  | 6.012 | 0.3270 | 2004 | 0.0049 |
| UC1000, 0.3257 | 1000 | 5.933 | 0.3257 | 897  | 0.0031 |
| UC1001, 0.3257 | 1001 | 5.933 | 0.3257 | 793  | 0.0027 |
| UC1003, 0.3257 | 1003 | 5.934 | 0.3257 | 782  | 0.0027 |
| UC1004, 0.3256 | 1004 | 5.932 | 0.3256 | 608  | 0.0021 |
| UC1005, 0.3256 | 1005 | 5.932 | 0.3256 | 1137 | 0.0039 |
| UC1006, 0.3256 | 1006 | 5.931 | 0.3256 | 1113 | 0.0038 |

|                |      |       |        |      |        |
|----------------|------|-------|--------|------|--------|
| UC1007, 0.3259 | 1007 | 5.937 | 0.3259 | 1464 | 0.0050 |
| UC1008, 0.3257 | 1008 | 5.934 | 0.3257 | 947  | 0.0032 |
| UC1009, 0.3259 | 1009 | 5.938 | 0.3259 | 810  | 0.0028 |
| UC1011, 0.3259 | 1011 | 5.937 | 0.3259 | 962  | 0.0033 |
| UC1012, 0.3258 | 1012 | 5.935 | 0.3258 | 770  | 0.0026 |
| UC1013, 0.3257 | 1013 | 5.934 | 0.3257 | 939  | 0.0032 |
| UC1014, 0.3259 | 1014 | 5.937 | 0.3259 | 1054 | 0.0036 |
| UC1015, 0.326  | 1015 | 5.939 | 0.3260 | 832  | 0.0028 |
| UC1016, 0.3261 | 1016 | 5.94  | 0.3261 | 680  | 0.0023 |
| UC1019, 0.3259 | 1019 | 5.938 | 0.3259 | 790  | 0.0027 |
| UC1020, 0.3259 | 1020 | 5.938 | 0.3259 | 1072 | 0.0036 |
| UC1021, 0.3259 | 1021 | 5.937 | 0.3259 | 1342 | 0.0046 |
| UC1026, 0.3261 | 1026 | 5.94  | 0.3261 | 840  | 0.0029 |
| UC1027, 0.3262 | 1027 | 5.943 | 0.3262 | 706  | 0.0024 |

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