

Supplementary Information1: To estimate the technical variation in this study of our group, an analysis of a double duplex manner of iTRAQ experiments were also carried out. Two protein samples were iTRAQ labeled in duplicate as follows (100  $\mu$ g each per label): Sample1, 114; Sample2, 115; Sample1, 116; Sample2, 117. The theoretical relative quantitative ratio between the 116:114 (Sample1 replicate) duplex and the 117:115 (Sample2 replicate) duplex should be unity, as described elsewhere<sup>1</sup>. However, due to nuisances, not all relative protein ratios are likely to agree with the theoretical value. Therefore, any deviation from the theoretical value can be accurately estimated to define a cut-off point. Based on 846 relative protein abundance ratios from the Sample1 and Sample2 replicates respectively (Table A) . Using different statistical analysis, the variation between the protein ratios were estimated to be less than 30% deviation, as shown below (Table B).

Table A

| Accession          | iTRAQ protein ratio 116:114 | iTRAQ protein ratio 117:115 | STD      |
|--------------------|-----------------------------|-----------------------------|----------|
| IPI:IPI00795676.1  | 0.200425                    | 0.185017                    | 0.010895 |
| IPI:IPI00306380.10 | 0.339765                    | 0.321971                    | 0.012582 |
| IPI:IPI00454695.4  | 0.255013                    | 0.348611                    | 0.066184 |
| IPI:IPI00005613.3  | 0.541236                    | 0.356311                    | 0.130762 |
| IPI:IPI00011603.2  | 0.390248                    | 0.36409                     | 0.018496 |
| IPI:IPI00792312.1  | 0.483148                    | 0.369635                    | 0.080266 |
| IPI:IPI00514905.4  | 0.695641                    | 0.388179                    | 0.217408 |
| IPI:IPI00029081.3  | 0.284647                    | 0.395988                    | 0.07873  |
| IPI:IPI00304082.8  | 0.296266                    | 0.401372                    | 0.074321 |
| IPI:IPI00399170.1  | 0.471136                    | 0.40984                     | 0.043343 |
| IPI:IPI00908298.1  | 0.558285                    | 0.422185                    | 0.096237 |
| IPI:IPI00639957.2  | 0.703977                    | 0.424818                    | 0.197395 |
| IPI:IPI00793443.1  | 0.439012                    | 0.43022                     | 0.006217 |
| IPI:IPI00026824.2  | 0.56553                     | 0.440157                    | 0.088652 |
| IPI:IPI00171438.2  | 0.41804                     | 0.446377                    | 0.020038 |

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| IPI:IPI00219153.4  | 0.815227 | 0.449522 | 0.258592 |
| IPI:IPI00478410.2  | 0.399562 | 0.450727 | 0.036179 |
| IPI:IPI00553131.2  | 0.507281 | 0.453232 | 0.038218 |
| IPI:IPI00017344.3  | 0.505664 | 0.46117  | 0.031462 |
| IPI:IPI00903145.1  | 0.566257 | 0.463448 | 0.072697 |
| IPI:IPI00013847.4  | 0.511982 | 0.465476 | 0.032885 |
| IPI:IPI00009958.6  | 0.394446 | 0.468377 | 0.052277 |
| IPI:IPI00012585.1  | 0.590122 | 0.473243 | 0.082646 |
| IPI:IPI00215901.1  | 0.500542 | 0.482589 | 0.012695 |
| IPI:IPI00219897.1  | 0.606373 | 0.491259 | 0.081397 |
| IPI:IPI00221222.7  | 0.41616  | 0.500395 | 0.059563 |
| IPI:IPI00916152.1  | 0.659481 | 0.502326 | 0.111126 |
| IPI:IPI00014151.3  | 0.544577 | 0.505486 | 0.027642 |
| IPI:IPI00107555.4  | 0.677661 | 0.508325 | 0.119739 |
| IPI:IPI00218976.1  | 0.507661 | 0.51095  | 0.002326 |
| IPI:IPI00747810.2  | 0.508072 | 0.512993 | 0.00348  |
| IPI:IPI00796333.1  | 0.575006 | 0.513667 | 0.043373 |
| IPI:IPI00295400.1  | 1.068028 | 0.514267 | 0.391568 |
| IPI:IPI00165261.6  | 0.509962 | 0.516745 | 0.004797 |
| IPI:IPI00916833.1  | 0.720784 | 0.518696 | 0.142898 |
| IPI:IPI00874018.1  | 0.494422 | 0.52015  | 0.018193 |
| IPI:IPI00003362.2  | 0.543235 | 0.527063 | 0.011435 |
| IPI:IPI00397860.3  | 0.826021 | 0.530021 | 0.209303 |
| IPI:IPI00010796.1  | 0.556244 | 0.530158 | 0.018445 |
| IPI:IPI00880053.1  | 0.868677 | 0.530578 | 0.239072 |
| IPI:IPI00514856.4  | 0.571853 | 0.530721 | 0.029085 |
| IPI:IPI00329331.6  | 0.277239 | 0.531098 | 0.179505 |
| IPI:IPI00001159.10 | 0.679387 | 0.538387 | 0.099702 |
| IPI:IPI00017303.1  | 0.650406 | 0.538769 | 0.078939 |
| IPI:IPI00847322.1  | 0.495372 | 0.55369  | 0.041237 |
| IPI:IPI00008485.1  | 0.756046 | 0.554298 | 0.142657 |
| IPI:IPI00016610.2  | 0.606091 | 0.561952 | 0.031212 |
| IPI:IPI00024006.3  | 0.482249 | 0.563341 | 0.05734  |
| IPI:IPI00009328.4  | 0.583757 | 0.565673 | 0.012788 |
| IPI:IPI00893746.1  | 0.567226 | 0.571804 | 0.003237 |
| IPI:IPI00016634.1  | 0.66767  | 0.575785 | 0.064973 |
| IPI:IPI00025285.3  | 0.737061 | 0.584683 | 0.107748 |
| IPI:IPI00219420.3  | 0.725983 | 0.593545 | 0.093647 |
| IPI:IPI00221088.5  | 0.630825 | 0.594158 | 0.025928 |
| IPI:IPI00016768.3  | 0.688743 | 0.597073 | 0.06482  |
| IPI:IPI00794900.3  | 0.609384 | 0.597542 | 0.008373 |
| IPI:IPI00010201.4  | 0.427736 | 0.600201 | 0.121951 |
| IPI:IPI00030275.5  | 0.436503 | 0.602138 | 0.117121 |

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|-------------------|----------|----------|----------|
| IPI:IPI00873899.1 | 0.842825 | 0.605202 | 0.168025 |
| IPI:IPI00910990.1 | 0.665686 | 0.605688 | 0.042425 |
| IPI:IPI00166132.3 | 0.802532 | 0.619342 | 0.129535 |
| IPI:IPI00010105.1 | 0.520809 | 0.619858 | 0.070038 |
| IPI:IPI00465361.4 | 1.092374 | 0.620277 | 0.333823 |
| IPI:IPI00418313.3 | 0.569556 | 0.624042 | 0.038528 |
| IPI:IPI00894390.2 | 0.708056 | 0.628848 | 0.056008 |
| IPI:IPI00873022.1 | 0.733775 | 0.629907 | 0.073446 |
| IPI:IPI00742682.2 | 0.743062 | 0.634297 | 0.076908 |
| IPI:IPI00910932.1 | 0.664265 | 0.636732 | 0.019469 |
| IPI:IPI00026781.2 | 0.608421 | 0.638919 | 0.021566 |
| IPI:IPI00021440.1 | 0.382669 | 0.64079  | 0.182519 |
| IPI:IPI00152167.3 | 0.601031 | 0.647358 | 0.032758 |
| IPI:IPI00411710.8 | 0.598018 | 0.648444 | 0.035656 |
| IPI:IPI00290460.3 | 1.410226 | 0.660863 | 0.52988  |
| IPI:IPI00304692.1 | 0.803673 | 0.662485 | 0.099835 |
| IPI:IPI00879750.1 | 0.777029 | 0.663451 | 0.080312 |
| IPI:IPI00298406.3 | 0.8196   | 0.663893 | 0.110101 |
| IPI:IPI00029665.8 | 0.892519 | 0.66578  | 0.160329 |
| IPI:IPI00453473.6 | 0.672131 | 0.666534 | 0.003958 |
| IPI:IPI00893743.1 | 0.896178 | 0.670461 | 0.159606 |
| IPI:IPI00026328.3 | 1.183954 | 0.670905 | 0.362781 |
| IPI:IPI00031517.1 | 0.657755 | 0.671147 | 0.00947  |
| IPI:IPI00514053.1 | 0.735445 | 0.671303 | 0.045355 |
| IPI:IPI00922603.1 | 1.230369 | 0.674275 | 0.393217 |
| IPI:IPI00023673.1 | 0.72643  | 0.67619  | 0.035525 |
| IPI:IPI00386294.2 | 0.636102 | 0.682526 | 0.032826 |
| IPI:IPI00867509.1 | 0.736441 | 0.682747 | 0.037968 |
| IPI:IPI00015018.1 | 0.600653 | 0.685628 | 0.060087 |
| IPI:IPI00008529.1 | 0.808276 | 0.687389 | 0.08548  |
| IPI:IPI00647012.2 | 0.794946 | 0.690493 | 0.073859 |
| IPI:IPI00029012.1 | 0.662595 | 0.691967 | 0.020769 |
| IPI:IPI00008475.1 | 0.829263 | 0.693574 | 0.095946 |
| IPI:IPI00020956.1 | 1.010538 | 0.693762 | 0.223995 |
| IPI:IPI00797126.1 | 0.659136 | 0.694156 | 0.024763 |
| IPI:IPI00887678.1 | 0.829582 | 0.698587 | 0.092628 |
| IPI:IPI00465028.7 | 0.763711 | 0.701716 | 0.043837 |
| IPI:IPI00299499.1 | 0.864671 | 0.702814 | 0.11445  |
| IPI:IPI00240812.6 | 1.162248 | 0.706019 | 0.322603 |
| IPI:IPI00007682.2 | 0.532854 | 0.706534 | 0.122811 |
| IPI:IPI00023728.1 | 2.286624 | 0.7073   | 1.116751 |
| IPI:IPI00163381.4 | 0.881149 | 0.708912 | 0.12179  |
| IPI:IPI00011932.8 | 1.046384 | 0.709557 | 0.238172 |

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| IPI:IPI00789551.1 | 0.865169 | 0.710912 | 0.109076 |
| IPI:IPI00888474.1 | 0.893916 | 0.711843 | 0.128745 |
| IPI:IPI00643536.2 | 0.855334 | 0.712049 | 0.101318 |
| IPI:IPI00555570.3 | 1.112853 | 0.713177 | 0.282614 |
| IPI:IPI00917955.1 | 0.629984 | 0.714878 | 0.060029 |
| IPI:IPI00011654.2 | 0.959171 | 0.71569  | 0.172167 |
| IPI:IPI00031583.4 | 0.866587 | 0.716442 | 0.106168 |
| IPI:IPI00000643.1 | 0.69985  | 0.716883 | 0.012044 |
| IPI:IPI00333996.5 | 0.791751 | 0.717272 | 0.052664 |
| IPI:IPI00218235.5 | 0.353712 | 0.71877  | 0.258134 |
| IPI:IPI00022334.1 | 0.663314 | 0.720968 | 0.040768 |
| IPI:IPI00016179.1 | 0.759502 | 0.721102 | 0.027153 |
| IPI:IPI00012462.1 | 0.823203 | 0.724577 | 0.069739 |
| IPI:IPI00001639.2 | 0.663352 | 0.724876 | 0.043504 |
| IPI:IPI00396485.3 | 0.860663 | 0.726333 | 0.094986 |
| IPI:IPI00016801.1 | 0.6924   | 0.726604 | 0.024186 |
| IPI:IPI00008530.1 | 0.741631 | 0.727198 | 0.010206 |
| IPI:IPI00019502.3 | 0.728141 | 0.72795  | 0.000135 |
| IPI:IPI00003527.5 | 0.764818 | 0.728626 | 0.025592 |
| IPI:IPI00654555.3 | 0.883749 | 0.729705 | 0.108926 |
| IPI:IPI00024129.1 | 0.68329  | 0.731113 | 0.033816 |
| IPI:IPI00844040.1 | 0.726651 | 0.733543 | 0.004874 |
| IPI:IPI00375513.3 | 0.757384 | 0.733942 | 0.016576 |
| IPI:IPI00031708.1 | 0.786324 | 0.735051 | 0.036256 |
| IPI:IPI00029056.2 | 0.804223 | 0.737038 | 0.047507 |
| IPI:IPI00006167.1 | 0.942347 | 0.737499 | 0.144849 |
| IPI:IPI00025340.3 | 0.731791 | 0.737789 | 0.004242 |
| IPI:IPI00220261.5 | 1.413645 | 0.738009 | 0.477747 |
| IPI:IPI00647328.4 | 0.775564 | 0.739805 | 0.025285 |
| IPI:IPI00909671.1 | 0.710262 | 0.740868 | 0.021642 |
| IPI:IPI00015077.1 | 0.899699 | 0.741266 | 0.112029 |
| IPI:IPI00871932.1 | 0.715544 | 0.741294 | 0.018208 |
| IPI:IPI00910047.1 | 0.736847 | 0.745956 | 0.006441 |
| IPI:IPI00303300.3 | 0.909763 | 0.747141 | 0.114991 |
| IPI:IPI00913848.1 | 0.804042 | 0.749422 | 0.038622 |
| IPI:IPI00217872.3 | 0.689119 | 0.750501 | 0.043403 |
| IPI:IPI00011253.3 | 0.599856 | 0.750505 | 0.106525 |
| IPI:IPI00008527.3 | 0.49031  | 0.752106 | 0.185118 |
| IPI:IPI00414320.2 | 0.605039 | 0.753505 | 0.104982 |
| IPI:IPI00301364.3 | 0.623042 | 0.753595 | 0.092315 |
| IPI:IPI00019912.3 | 0.751867 | 0.755706 | 0.002715 |
| IPI:IPI00216965.1 | 0.804174 | 0.757425 | 0.033056 |
| IPI:IPI00220906.5 | 0.936854 | 0.758141 | 0.126369 |

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| IPI:IPI00013862.7 | 0.896188 | 0.761191 | 0.095457 |
| IPI:IPI00553185.2 | 0.72378  | 0.763823 | 0.028314 |
| IPI:IPI00291646.3 | 1.207027 | 0.766117 | 0.31177  |
| IPI:IPI00021812.2 | 0.915162 | 0.766692 | 0.104984 |
| IPI:IPI00514424.3 | 0.892764 | 0.766834 | 0.089046 |
| IPI:IPI00745872.2 | 0.97494  | 0.769577 | 0.145214 |
| IPI:IPI00026530.4 | 0.803184 | 0.769659 | 0.023705 |
| IPI:IPI00296053.3 | 0.817832 | 0.771094 | 0.033048 |
| IPI:IPI00297211.1 | 0.696794 | 0.771515 | 0.052836 |
| IPI:IPI00413860.4 | 0.776826 | 0.772119 | 0.003328 |
| IPI:IPI00893013.1 | 0.782212 | 0.772249 | 0.007045 |
| IPI:IPI00420084.3 | 0.845963 | 0.772406 | 0.052013 |
| IPI:IPI00003881.5 | 0.845284 | 0.772936 | 0.051157 |
| IPI:IPI00376798.3 | 0.716573 | 0.775376 | 0.04158  |
| IPI:IPI00291525.1 | 0.647774 | 0.775897 | 0.090597 |
| IPI:IPI00215888.4 | 0.993627 | 0.776976 | 0.153195 |
| IPI:IPI00414384.1 | 0.952169 | 0.777562 | 0.123466 |
| IPI:IPI00872692.1 | 0.853847 | 0.777612 | 0.053906 |
| IPI:IPI00297477.3 | 0.852536 | 0.777824 | 0.052829 |
| IPI:IPI00026219.4 | 0.738092 | 0.778958 | 0.028896 |
| IPI:IPI00719567.1 | 0.790687 | 0.779272 | 0.008072 |
| IPI:IPI00377261.1 | 0.916587 | 0.780863 | 0.095971 |
| IPI:IPI00382990.1 | 0.616022 | 0.78124  | 0.116827 |
| IPI:IPI00012772.8 | 1.257881 | 0.78163  | 0.33676  |
| IPI:IPI00401264.5 | 0.911621 | 0.783259 | 0.090766 |
| IPI:IPI00642944.1 | 0.568411 | 0.783654 | 0.1522   |
| IPI:IPI00024502.2 | 0.797965 | 0.784351 | 0.009626 |
| IPI:IPI00909516.1 | 0.783698 | 0.78543  | 0.001225 |
| IPI:IPI00001734.3 | 0.708803 | 0.787038 | 0.05532  |
| IPI:IPI00828125.1 | 0.781717 | 0.787281 | 0.003935 |
| IPI:IPI00027705.2 | 0.750174 | 0.788151 | 0.026854 |
| IPI:IPI00030255.1 | 0.830227 | 0.78937  | 0.028891 |
| IPI:IPI00021338.2 | 0.915178 | 0.79156  | 0.087411 |
| IPI:IPI00645431.2 | 0.794758 | 0.793352 | 0.000995 |
| IPI:IPI00307359.5 | 0.855452 | 0.795059 | 0.042704 |
| IPI:IPI00004902.1 | 0.904536 | 0.795767 | 0.076911 |
| IPI:IPI00002895.1 | 0.952371 | 0.795794 | 0.110717 |
| IPI:IPI00300127.3 | 0.805096 | 0.796138 | 0.006334 |
| IPI:IPI00027252.6 | 0.788589 | 0.797081 | 0.006005 |
| IPI:IPI00217240.1 | 0.920622 | 0.797299 | 0.087202 |
| IPI:IPI00003968.1 | 0.55365  | 0.798054 | 0.172819 |
| IPI:IPI00873680.2 | 0.962981 | 0.799312 | 0.115732 |
| IPI:IPI00005202.2 | 0.742176 | 0.801196 | 0.041734 |

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| IPI:IPI00219729.3 | 1.027326 | 0.801409 | 0.159747 |
| IPI:IPI00790571.2 | 0.746616 | 0.802088 | 0.039225 |
| IPI:IPI00037448.3 | 0.930393 | 0.803966 | 0.089398 |
| IPI:IPI00479918.2 | 0.892289 | 0.805783 | 0.061169 |
| IPI:IPI00002902.5 | 0.976799 | 0.806169 | 0.120653 |
| IPI:IPI00011200.5 | 0.813885 | 0.809453 | 0.003134 |
| IPI:IPI00220827.5 | 1.050604 | 0.810346 | 0.169888 |
| IPI:IPI00221091.9 | 0.843659 | 0.811    | 0.023094 |
| IPI:IPI00033561.3 | 1.039459 | 0.812202 | 0.160695 |
| IPI:IPI00414676.6 | 0.790451 | 0.813786 | 0.016501 |
| IPI:IPI00873466.1 | 0.841241 | 0.813946 | 0.019301 |
| IPI:IPI00290461.3 | 0.873283 | 0.814568 | 0.041518 |
| IPI:IPI00219350.1 | 0.890906 | 0.814829 | 0.053795 |
| IPI:IPI00021187.4 | 0.740137 | 0.815877 | 0.053557 |
| IPI:IPI00413947.1 | 0.887207 | 0.816444 | 0.050037 |
| IPI:IPI00304435.3 | 0.793827 | 0.816932 | 0.016338 |
| IPI:IPI00024661.4 | 1.141712 | 0.817033 | 0.229582 |
| IPI:IPI00643152.2 | 0.978185 | 0.818376 | 0.113002 |
| IPI:IPI00004488.2 | 0.827786 | 0.819983 | 0.005517 |
| IPI:IPI00019884.1 | 0.833893 | 0.820458 | 0.0095   |
| IPI:IPI00894409.1 | 0.850563 | 0.822747 | 0.019669 |
| IPI:IPI00291006.2 | 0.830804 | 0.822793 | 0.005665 |
| IPI:IPI00889619.1 | 0.892542 | 0.823883 | 0.048549 |
| IPI:IPI00014898.3 | 0.888779 | 0.824398 | 0.045524 |
| IPI:IPI00013146.1 | 0.813503 | 0.824426 | 0.007724 |
| IPI:IPI00888913.1 | 0.889052 | 0.824466 | 0.045669 |
| IPI:IPI00032959.3 | 1.185294 | 0.824822 | 0.254892 |
| IPI:IPI00783378.3 | 0.910338 | 0.825542 | 0.05996  |
| IPI:IPI00448798.6 | 0.93613  | 0.827456 | 0.076844 |
| IPI:IPI00470921.4 | 0.773283 | 0.827567 | 0.038384 |
| IPI:IPI00643920.3 | 0.835906 | 0.827858 | 0.00569  |
| IPI:IPI00418446.4 | 0.843076 | 0.828616 | 0.010225 |
| IPI:IPI00217709.1 | 0.852639 | 0.829188 | 0.016582 |
| IPI:IPI00879999.1 | 0.881723 | 0.830806 | 0.036003 |
| IPI:IPI00796366.2 | 0.812974 | 0.831098 | 0.012816 |
| IPI:IPI00922181.1 | 0.822626 | 0.833462 | 0.007662 |
| IPI:IPI00026833.4 | 0.99094  | 0.833851 | 0.111078 |
| IPI:IPI00029133.4 | 0.704003 | 0.834056 | 0.091962 |
| IPI:IPI00026970.4 | 1.106485 | 0.834531 | 0.192301 |
| IPI:IPI00604620.3 | 0.838266 | 0.834844 | 0.002419 |
| IPI:IPI00000494.6 | 0.911887 | 0.836036 | 0.053635 |
| IPI:IPI00295940.4 | 1.002754 | 0.836585 | 0.117499 |
| IPI:IPI00027230.3 | 0.900854 | 0.837249 | 0.044976 |

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| IPI:IPI00910686.1 | 1.537339 | 0.837508 | 0.494855 |
| IPI:IPI00815944.1 | 0.693728 | 0.837647 | 0.101766 |
| IPI:IPI00889723.1 | 0.89952  | 0.838039 | 0.043473 |
| IPI:IPI00385449.4 | 1.011792 | 0.838129 | 0.122798 |
| IPI:IPI00784543.1 | 0.815321 | 0.83822  | 0.016192 |
| IPI:IPI00295485.1 | 1.148804 | 0.838501 | 0.219417 |
| IPI:IPI00031554.1 | 0.75762  | 0.838699 | 0.057332 |
| IPI:IPI00010080.2 | 0.658151 | 0.840446 | 0.128902 |
| IPI:IPI00867746.1 | 0.892313 | 0.841083 | 0.036225 |
| IPI:IPI00215801.1 | 0.903111 | 0.842257 | 0.04303  |
| IPI:IPI00022232.1 | 0.84485  | 0.842823 | 0.001433 |
| IPI:IPI00024976.5 | 0.931856 | 0.84368  | 0.06235  |
| IPI:IPI00893918.1 | 0.915051 | 0.843786 | 0.050392 |
| IPI:IPI00382470.3 | 0.917144 | 0.844312 | 0.0515   |
| IPI:IPI00429191.3 | 1.069824 | 0.846141 | 0.158168 |
| IPI:IPI00297646.4 | 0.90882  | 0.846526 | 0.044049 |
| IPI:IPI00000581.6 | 0.846468 | 0.848116 | 0.001165 |
| IPI:IPI00456969.1 | 1.008131 | 0.848354 | 0.112979 |
| IPI:IPI00910706.1 | 0.913203 | 0.848855 | 0.045501 |
| IPI:IPI00844578.1 | 0.933924 | 0.850238 | 0.059175 |
| IPI:IPI00916503.1 | 0.670644 | 0.850962 | 0.127504 |
| IPI:IPI00183626.8 | 0.77607  | 0.856101 | 0.05659  |
| IPI:IPI00000792.1 | 0.742547 | 0.856263 | 0.080409 |
| IPI:IPI00025796.3 | 0.90306  | 0.856585 | 0.032863 |
| IPI:IPI00022977.1 | 0.994078 | 0.856623 | 0.097196 |
| IPI:IPI00170706.2 | 1.123039 | 0.857339 | 0.187879 |
| IPI:IPI00009104.7 | 0.919744 | 0.858777 | 0.04311  |
| IPI:IPI00034277.1 | 1.311672 | 0.859177 | 0.319962 |
| IPI:IPI00220301.5 | 1.094214 | 0.859256 | 0.16614  |
| IPI:IPI00033349.3 | 0.794234 | 0.859619 | 0.046234 |
| IPI:IPI00293946.5 | 0.961585 | 0.860845 | 0.071234 |
| IPI:IPI00217468.3 | 0.978838 | 0.861915 | 0.082677 |
| IPI:IPI00169400.1 | 0.743454 | 0.862227 | 0.083986 |
| IPI:IPI00005948.1 | 0.960901 | 0.863265 | 0.069039 |
| IPI:IPI00167941.1 | 0.75158  | 0.863849 | 0.079386 |
| IPI:IPI00216164.4 | 0.905556 | 0.864371 | 0.029122 |
| IPI:IPI00552639.2 | 1.034143 | 0.864666 | 0.119838 |
| IPI:IPI00018398.4 | 0.897296 | 0.864721 | 0.023034 |
| IPI:IPI00171127.1 | 0.779145 | 0.865423 | 0.061007 |
| IPI:IPI00016670.3 | 0.89177  | 0.86566  | 0.018462 |
| IPI:IPI00008524.1 | 2.215344 | 0.867206 | 0.953278 |
| IPI:IPI00374151.1 | 0.887999 | 0.86788  | 0.014226 |
| IPI:IPI00871160.1 | 0.962545 | 0.86819  | 0.066719 |

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| IPI:IPI00644161.1 | 0.826495 | 0.868565 | 0.029748 |
| IPI:IPI00217465.5 | 0.96216  | 0.869055 | 0.065835 |
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| IPI:IPI00853059.2 | 0.97551  | 0.870193 | 0.07447  |
| IPI:IPI00829908.1 | 0.872872 | 0.87318  | 0.000218 |
| IPI:IPI00844076.1 | 0.849754 | 0.87374  | 0.01696  |
| IPI:IPI00015973.1 | 0.659783 | 0.874213 | 0.151625 |
| IPI:IPI00746205.1 | 0.825486 | 0.874901 | 0.034942 |
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| IPI:IPI00477971.4 | 0.87548  | 0.87864  | 0.002235 |
| IPI:IPI00007812.1 | 0.975498 | 0.879524 | 0.067864 |
| IPI:IPI00902597.1 | 1.137326 | 0.881126 | 0.181161 |
| IPI:IPI00003985.1 | 0.919247 | 0.881258 | 0.026862 |
| IPI:IPI00002966.2 | 0.93976  | 0.881388 | 0.041275 |
| IPI:IPI00878287.1 | 1.116218 | 0.88271  | 0.165115 |
| IPI:IPI00658128.1 | 1.023831 | 0.884488 | 0.09853  |
| IPI:IPI00103467.4 | 0.807324 | 0.885717 | 0.055432 |
| IPI:IPI00024466.2 | 0.94188  | 0.887041 | 0.038776 |
| IPI:IPI00152946.1 | 1.244107 | 0.887312 | 0.252292 |
| IPI:IPI00478935.2 | 0.881709 | 0.888004 | 0.004451 |
| IPI:IPI00007087.4 | 1.07602  | 0.888081 | 0.132893 |
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| IPI:IPI00784154.1 | 0.937265 | 0.890902 | 0.032783 |
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| IPI:IPI00007940.6 | 1.004273 | 0.892255 | 0.079208 |
| IPI:IPI00910482.1 | 0.875047 | 0.894271 | 0.013593 |
| IPI:IPI00853454.1 | 0.706457 | 0.895412 | 0.133611 |
| IPI:IPI00219682.6 | 0.895838 | 0.895431 | 0.000287 |
| IPI:IPI00303476.1 | 0.950162 | 0.895843 | 0.038409 |
| IPI:IPI00514501.1 | 1.249267 | 0.896482 | 0.249456 |
| IPI:IPI00917777.1 | 0.957856 | 0.896502 | 0.043383 |
| IPI:IPI00790115.1 | 0.857352 | 0.896723 | 0.02784  |
| IPI:IPI00246058.9 | 0.968196 | 0.898247 | 0.049461 |
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| IPI:IPI00555957.1 | 0.99188  | 0.90255  | 0.063166 |
| IPI:IPI00619966.1 | 0.90584  | 0.904141 | 0.001201 |
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| IPI:IPI00303568.3 | 0.955614 | 0.905205 | 0.035644 |
| IPI:IPI00026215.1 | 0.828122 | 0.905812 | 0.054935 |
| IPI:IPI00025329.1 | 1.354135 | 0.906128 | 0.316788 |
| IPI:IPI00922359.1 | 0.825875 | 0.906925 | 0.057311 |
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| IPI:IPI00873470.1 | 1.058024 | 0.907857 | 0.106184 |
| IPI:IPI00221092.8 | 1.065571 | 0.908153 | 0.111312 |
| IPI:IPI00215884.4 | 0.908875 | 0.908456 | 0.000296 |
| IPI:IPI00922855.1 | 0.914588 | 0.908688 | 0.004172 |
| IPI:IPI00022229.1 | 0.864703 | 0.909498 | 0.031674 |
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| IPI:IPI00031461.2 | 0.882841 | 0.920294 | 0.026483 |
| IPI:IPI00296353.8 | 0.821158 | 0.921774 | 0.071147 |
| IPI:IPI00645078.1 | 0.908424 | 0.922301 | 0.009813 |
| IPI:IPI00011416.2 | 1.067258 | 0.922827 | 0.102128 |
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| IPI:IPI00807545.1 | 0.92019  | 0.925892 | 0.004032 |
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| IPI:IPI00879399.2 | 0.880833 | 0.926935 | 0.032599 |
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| IPI:IPI00013296.3 | 0.918952 | 0.927719 | 0.006199 |
| IPI:IPI00305383.1 | 1.036706 | 0.927953 | 0.0769   |
| IPI:IPI00299402.1 | 1.084472 | 0.928442 | 0.11033  |
| IPI:IPI00017726.1 | 0.984735 | 0.929179 | 0.039284 |
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| IPI:IPI00292135.1 | 0.761135 | 0.932566 | 0.12122  |
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| IPI:IPI00022613.4 | 1.218195 | 0.933811 | 0.20109  |
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| IPI:IPI00409593.1 | 0.821672 | 0.935816 | 0.080712 |
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| IPI:IPI00037070.3 | 0.777904 | 0.937148 | 0.112602 |
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| IPI:IPI00433833.1 | 0.751729 | 0.939125 | 0.132509 |
| IPI:IPI00012795.3 | 1.006334 | 0.939132 | 0.047519 |
| IPI:IPI00790739.1 | 1.030517 | 0.940088 | 0.063943 |
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| IPI:IPI00005490.1 | 1.282459 | 0.944931 | 0.238668 |
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| IPI:IPI00301263.2 | 1.093872 | 0.957749 | 0.096254 |
| IPI:IPI00004233.2 | 0.640051 | 0.957978 | 0.224809 |
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| IPI:IPI00448767.5 | 0.972296 | 0.961686 | 0.007502 |
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| IPI:IPI00031836.3 | 0.969243 | 0.963739 | 0.003892 |
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| IPI:IPI00027834.3 | 0.937933 | 0.967137 | 0.02065  |
| IPI:IPI00000230.6 | 0.905028 | 0.967236 | 0.043987 |
| IPI:IPI00642211.3 | 0.995402 | 0.968296 | 0.019166 |
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| IPI:IPI00827508.2 | 1.034598 | 0.969372 | 0.046122 |
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| IPI:IPI00017526.1 | 1.134355 | 0.973671 | 0.113621 |
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| IPI:IPI00171611.7 | 0.953187 | 0.976016 | 0.016142 |
| IPI:IPI00021926.3 | 0.957517 | 0.976967 | 0.013753 |
| IPI:IPI00302238.3 | 1.149408 | 0.977709 | 0.121409 |
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| IPI:IPI00220271.3 | 1.095037 | 0.978786 | 0.082202 |
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| IPI:IPI00011550.1 | 1.104985 | 0.988734 | 0.082202 |
| IPI:IPI00166153.3 | 0.703913 | 0.988884 | 0.201505 |
| IPI:IPI00031410.1 | 0.931154 | 0.989295 | 0.041112 |
| IPI:IPI00218547.1 | 1.008425 | 0.989774 | 0.013188 |
| IPI:IPI00218463.3 | 0.651216 | 0.990106 | 0.239631 |
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| IPI:IPI00015897.2 | 1.336343 | 0.998253 | 0.239065 |
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| IPI:IPI00742926.1 | 1.126561 | 1.004625 | 0.086221 |
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| IPI:IPI00908647.1 | 1.029116 | 1.008452 | 0.014611 |
| IPI:IPI00785142.2 | 1.00013  | 1.008662 | 0.006033 |
| IPI:IPI00016613.2 | 1.217405 | 1.008873 | 0.147455 |
| IPI:IPI00871240.2 | 1.0078   | 1.009134 | 0.000943 |
| IPI:IPI00074604.1 | 1.4681   | 1.009463 | 0.324305 |
| IPI:IPI00025019.3 | 1.055327 | 1.009899 | 0.032122 |
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| IPI:IPI00895852.1 | 0.996155 | 1.012096 | 0.011272 |
| IPI:IPI00024911.1 | 1.132023 | 1.012293 | 0.084662 |
| IPI:IPI00903213.1 | 1.385333 | 1.01378  | 0.262727 |
| IPI:IPI00012007.6 | 1.112772 | 1.013814 | 0.069974 |
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| IPI:IPI00017510.3 | 1.032084 | 1.01545  | 0.011762 |
| IPI:IPI00010740.1 | 1.014756 | 1.015965 | 0.000855 |
| IPI:IPI00298949.1 | 1.322423 | 1.016739 | 0.216151 |
| IPI:IPI00242630.3 | 1.040449 | 1.017455 | 0.016259 |
| IPI:IPI00332499.1 | 1.013119 | 1.017778 | 0.003295 |
| IPI:IPI00026665.2 | 0.955489 | 1.017849 | 0.044095 |
| IPI:IPI00032139.1 | 0.932653 | 1.018511 | 0.060711 |
| IPI:IPI00643027.1 | 0.807444 | 1.018861 | 0.149494 |
| IPI:IPI00893008.1 | 0.81933  | 1.020381 | 0.142165 |
| IPI:IPI00030383.1 | 1.191402 | 1.021031 | 0.120471 |
| IPI:IPI00065276.2 | 0.813756 | 1.021239 | 0.146713 |
| IPI:IPI00550451.1 | 1.135205 | 1.023531 | 0.078965 |
| IPI:IPI00289999.3 | 1.068892 | 1.023807 | 0.03188  |
| IPI:IPI00737638.2 | 0.972199 | 1.024061 | 0.036672 |
| IPI:IPI00221325.3 | 1.145263 | 1.024096 | 0.085679 |

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| IPI:IPI00025874.2  | 1.061159 | 1.024347 | 0.02603  |
| IPI:IPI00902590.1  | 1.010846 | 1.024994 | 0.010004 |
| IPI:IPI00333215.1  | 1.003873 | 1.027807 | 0.016924 |
| IPI:IPI00025039.1  | 1.090302 | 1.02976  | 0.04281  |
| IPI:IPI00218466.7  | 0.950033 | 1.031463 | 0.05758  |
| IPI:IPI00641153.3  | 0.773592 | 1.031932 | 0.182674 |
| IPI:IPI00642549.2  | 1.009266 | 1.033548 | 0.01717  |
| IPI:IPI00783982.1  | 1.24962  | 1.034361 | 0.152211 |
| IPI:IPI00479306.1  | 0.933052 | 1.0353   | 0.0723   |
| IPI:IPI00647915.1  | 1.133463 | 1.035699 | 0.06913  |
| IPI:IPI00218297.11 | 0.990673 | 1.035745 | 0.03187  |
| IPI:IPI00419249.5  | 0.917553 | 1.036134 | 0.083849 |
| IPI:IPI00607801.2  | 0.989508 | 1.037323 | 0.03381  |
| IPI:IPI00171903.2  | 1.017524 | 1.037885 | 0.014397 |
| IPI:IPI00910593.1  | 0.963211 | 1.038113 | 0.052964 |
| IPI:IPI00295386.7  | 1.001773 | 1.038359 | 0.025871 |
| IPI:IPI00337415.9  | 0.619993 | 1.039365 | 0.296541 |
| IPI:IPI00221141.3  | 1.303946 | 1.039365 | 0.187087 |
| IPI:IPI00100151.4  | 1.061548 | 1.039563 | 0.015545 |
| IPI:IPI00477313.3  | 1.027522 | 1.040163 | 0.008939 |
| IPI:IPI00219306.1  | 0.826789 | 1.041668 | 0.151943 |
| IPI:IPI00021266.1  | 1.025585 | 1.041845 | 0.011498 |
| IPI:IPI00909077.1  | 1.209305 | 1.042131 | 0.11821  |
| IPI:IPI00018465.1  | 1.113196 | 1.042515 | 0.04998  |
| IPI:IPI00294158.1  | 1.062763 | 1.043063 | 0.01393  |
| IPI:IPI00872028.1  | 1.013801 | 1.043115 | 0.020728 |
| IPI:IPI00550746.4  | 1.20959  | 1.044484 | 0.116747 |
| IPI:IPI00031357.1  | 1.009503 | 1.044524 | 0.024763 |
| IPI:IPI00029446.3  | 0.998874 | 1.045449 | 0.032934 |
| IPI:IPI00554626.3  | 0.815688 | 1.04561  | 0.162579 |
| IPI:IPI00796337.1  | 1.108041 | 1.046287 | 0.043667 |
| IPI:IPI00217467.3  | 1.091601 | 1.046746 | 0.031718 |
| IPI:IPI00031960.2  | 1.302334 | 1.048304 | 0.179626 |
| IPI:IPI00027107.5  | 1.044279 | 1.048712 | 0.003135 |
| IPI:IPI00479186.6  | 0.956184 | 1.050448 | 0.066655 |
| IPI:IPI00003479.3  | 1.070696 | 1.050964 | 0.013953 |
| IPI:IPI00550689.3  | 1.110556 | 1.051053 | 0.042075 |
| IPI:IPI00022443.1  | 0.975961 | 1.053244 | 0.054647 |
| IPI:IPI00871889.1  | 0.99234  | 1.054148 | 0.043705 |
| IPI:IPI00017375.2  | 1.014612 | 1.05736  | 0.030227 |
| IPI:IPI00396627.1  | 1.207374 | 1.057705 | 0.105832 |
| IPI:IPI00470920.1  | 0.837733 | 1.057753 | 0.155577 |
| IPI:IPI00647268.1  | 0.890325 | 1.058026 | 0.118582 |

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| IPI:IPI00217253.3 | 1.322825 | 1.058041 | 0.187231 |
| IPI:IPI00015911.1 | 1.333744 | 1.058886 | 0.194354 |
| IPI:IPI00171445.1 | 1.331509 | 1.059982 | 0.191998 |
| IPI:IPI00644708.1 | 1.166843 | 1.060328 | 0.075318 |
| IPI:IPI00884105.2 | 0.959969 | 1.062445 | 0.072461 |
| IPI:IPI00024993.4 | 1.122882 | 1.06249  | 0.042704 |
| IPI:IPI00890837.1 | 1.137583 | 1.063709 | 0.052237 |
| IPI:IPI00304925.5 | 1.16491  | 1.063767 | 0.071519 |
| IPI:IPI00301395.4 | 0.855088 | 1.064351 | 0.147971 |
| IPI:IPI00022143.3 | 1.134476 | 1.064522 | 0.049465 |
| IPI:IPI00103994.4 | 0.993491 | 1.065014 | 0.050575 |
| IPI:IPI00910435.1 | 1.120992 | 1.06507  | 0.039542 |
| IPI:IPI00000874.1 | 1.135034 | 1.066919 | 0.048165 |
| IPI:IPI00550644.2 | 0.715331 | 1.067578 | 0.249076 |
| IPI:IPI00873829.1 | 1.137747 | 1.067819 | 0.049447 |
| IPI:IPI00305551.3 | 0.969716 | 1.068349 | 0.069745 |
| IPI:IPI00425566.1 | 1.205678 | 1.072917 | 0.093876 |
| IPI:IPI00019927.2 | 0.985533 | 1.074288 | 0.062759 |
| IPI:IPI00428967.2 | 0.923131 | 1.078879 | 0.11013  |
| IPI:IPI00017341.3 | 0.83468  | 1.079944 | 0.173428 |
| IPI:IPI00398009.2 | 0.998821 | 1.079999 | 0.057401 |
| IPI:IPI00294380.5 | 1.097986 | 1.082231 | 0.011141 |
| IPI:IPI00217143.3 | 0.917463 | 1.083149 | 0.117158 |
| IPI:IPI00216319.3 | 1.27187  | 1.084407 | 0.132556 |
| IPI:IPI00872430.1 | 1.160563 | 1.085276 | 0.053235 |
| IPI:IPI00019345.1 | 1.438269 | 1.086156 | 0.248981 |
| IPI:IPI00412607.6 | 1.22627  | 1.086819 | 0.098607 |
| IPI:IPI00789848.1 | 1.038103 | 1.087395 | 0.034855 |
| IPI:IPI00477001.3 | 1.023462 | 1.088703 | 0.046132 |
| IPI:IPI00004273.6 | 0.804896 | 1.0897   | 0.201387 |
| IPI:IPI00465248.5 | 1.155589 | 1.091231 | 0.045508 |
| IPI:IPI00654755.3 | 0.707697 | 1.091733 | 0.271554 |
| IPI:IPI00868973.1 | 1.092914 | 1.092306 | 0.000429 |
| IPI:IPI00915760.1 | 1.108252 | 1.092962 | 0.010811 |
| IPI:IPI00335001.2 | 1.141724 | 1.094006 | 0.033742 |
| IPI:IPI00165092.3 | 1.06399  | 1.096664 | 0.023104 |
| IPI:IPI00000686.2 | 0.918876 | 1.09679  | 0.125804 |
| IPI:IPI00014230.1 | 1.128496 | 1.097017 | 0.022259 |
| IPI:IPI00178440.3 | 1.160365 | 1.0977   | 0.044311 |
| IPI:IPI00908769.1 | 1.286308 | 1.097939 | 0.133197 |
| IPI:IPI00328161.8 | 0.778345 | 1.098214 | 0.226181 |
| IPI:IPI00294911.1 | 1.369769 | 1.099249 | 0.191287 |
| IPI:IPI00026302.3 | 1.163194 | 1.100443 | 0.044372 |

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| IPI:IPI00464979.4 | 1.08887  | 1.101472 | 0.008911 |
| IPI:IPI00219018.7 | 1.204636 | 1.10171  | 0.072779 |
| IPI:IPI00020984.2 | 1.039249 | 1.102159 | 0.044484 |
| IPI:IPI00156689.3 | 1.881409 | 1.103037 | 0.550392 |
| IPI:IPI00015614.4 | 1.384355 | 1.103305 | 0.198732 |
| IPI:IPI00843876.1 | 1.090037 | 1.103607 | 0.009596 |
| IPI:IPI00009901.1 | 1.130464 | 1.104787 | 0.018156 |
| IPI:IPI00385495.5 | 0.297664 | 1.104872 | 0.570782 |
| IPI:IPI00908543.1 | 1.216988 | 1.105477 | 0.07885  |
| IPI:IPI00219037.5 | 1.158892 | 1.105978 | 0.037416 |
| IPI:IPI00878252.1 | 1.324119 | 1.107313 | 0.153305 |
| IPI:IPI00784936.1 | 1.423797 | 1.107589 | 0.223592 |
| IPI:IPI00018009.2 | 1.194474 | 1.108386 | 0.060874 |
| IPI:IPI00645809.1 | 1.083532 | 1.110251 | 0.018894 |
| IPI:IPI00844361.1 | 1.029509 | 1.110829 | 0.057502 |
| IPI:IPI00394668.2 | 1.339343 | 1.111203 | 0.161319 |
| IPI:IPI00789242.1 | 1.238284 | 1.11248  | 0.088957 |
| IPI:IPI00171844.3 | 0.782969 | 1.115181 | 0.234909 |
| IPI:IPI00871856.2 | 1.041241 | 1.116047 | 0.052895 |
| IPI:IPI00001589.1 | 1.092037 | 1.117394 | 0.017931 |
| IPI:IPI00644131.1 | 0.969946 | 1.118638 | 0.105142 |
| IPI:IPI00022891.3 | 1.029136 | 1.11911  | 0.063622 |
| IPI:IPI00025273.1 | 1.535671 | 1.119759 | 0.294095 |
| IPI:IPI00908883.1 | 1.171826 | 1.120322 | 0.036419 |
| IPI:IPI00333771.1 | 1.043276 | 1.120693 | 0.054742 |
| IPI:IPI00867720.1 | 1.120985 | 1.12104  | 3.85E-05 |
| IPI:IPI00554777.2 | 1.106063 | 1.121052 | 0.010599 |
| IPI:IPI00019977.2 | 1.178015 | 1.122122 | 0.039522 |
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| IPI:IPI00465410.5 | 1.509778 | 1.12497  | 0.2721   |
| IPI:IPI00007118.1 | 1.25389  | 1.126176 | 0.090307 |
| IPI:IPI00295992.4 | 1.22933  | 1.126532 | 0.072689 |
| IPI:IPI00647217.2 | 1.268477 | 1.126761 | 0.100208 |
| IPI:IPI00873222.2 | 1.239896 | 1.127183 | 0.0797   |
| IPI:IPI00005154.1 | 0.902652 | 1.127544 | 0.159023 |
| IPI:IPI00008274.7 | 1.170446 | 1.127673 | 0.030245 |
| IPI:IPI00296485.6 | 0.966244 | 1.129859 | 0.115693 |
| IPI:IPI00910513.1 | 0.930839 | 1.129895 | 0.140754 |
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| IPI:IPI00029513.1 | 1.054539 | 1.135496 | 0.057245 |
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| IPI:IPI00807498.1 | 1.695256 | 1.137883 | 0.394123 |
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| IPI:IPI00100656.3 | 0.8777   | 1.139459 | 0.185092 |
| IPI:IPI00016746.1 | 1.326049 | 1.140911 | 0.130912 |
| IPI:IPI00647794.3 | 0.860502 | 1.144428 | 0.200766 |
| IPI:IPI00015806.3 | 1.503796 | 1.145416 | 0.253413 |
| IPI:IPI00872940.1 | 1.309078 | 1.146755 | 0.11478  |
| IPI:IPI00007752.1 | 1.174369 | 1.146908 | 0.019417 |
| IPI:IPI00218852.4 | 0.983193 | 1.150077 | 0.118005 |
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| IPI:IPI00291136.4 | 0.989884 | 1.152413 | 0.114926 |
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| IPI:IPI00029079.5 | 1.047572 | 1.154338 | 0.075495 |
| IPI:IPI00165393.1 | 1.380619 | 1.154979 | 0.159551 |
| IPI:IPI00025091.3 | 1.064636 | 1.155364 | 0.064154 |
| IPI:IPI00290204.1 | 1.549879 | 1.156528 | 0.278141 |
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| IPI:IPI00216695.1 | 0.944973 | 1.160774 | 0.152595 |
| IPI:IPI00294211.2 | 1.252145 | 1.167452 | 0.059887 |
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| IPI:IPI00479722.2 | 1.320575 | 1.178605 | 0.100388 |
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| IPI:IPI00002520.1 | 1.306643 | 1.183442 | 0.087116 |
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| IPI:IPI00289862.4 | 0.886218 | 1.188697 | 0.213885 |
| IPI:IPI00553029.2 | 1.131009 | 1.189181 | 0.041134 |
| IPI:IPI00386119.4 | 1.246111 | 1.189852 | 0.039781 |
| IPI:IPI00024920.1 | 1.37648  | 1.195825 | 0.127742 |
| IPI:IPI00011916.1 | 1.161629 | 1.196759 | 0.024841 |
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| IPI:IPI00477831.2 | 1.079661 | 1.202552 | 0.086897 |
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| IPI:IPI00290142.5 | 1.243631 | 1.20506  | 0.027274 |
| IPI:IPI00219219.3 | 1.341188 | 1.207871 | 0.094269 |
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| IPI:IPI00061005.4 | 1.366612 | 1.211826 | 0.10945  |
| IPI:IPI00219155.5 | 1.341519 | 1.212805 | 0.091015 |
| IPI:IPI00748258.2 | 1.278415 | 1.213981 | 0.045562 |
| IPI:IPI00440703.1 | 1.153281 | 1.214106 | 0.04301  |
| IPI:IPI00922891.1 | 1.053097 | 1.215133 | 0.114577 |
| IPI:IPI00008998.3 | 1.113806 | 1.215568 | 0.071956 |
| IPI:IPI00744627.1 | 0.884234 | 1.215924 | 0.23454  |
| IPI:IPI00026216.4 | 1.013652 | 1.216836 | 0.143673 |
| IPI:IPI00025366.4 | 1.561232 | 1.220265 | 0.2411   |
| IPI:IPI00328715.4 | 1.430751 | 1.220742 | 0.148499 |
| IPI:IPI00011118.2 | 0.98632  | 1.221322 | 0.166172 |
| IPI:IPI00019733.1 | 0.993466 | 1.221959 | 0.161569 |
| IPI:IPI00478208.2 | 1.351084 | 1.223031 | 0.090547 |
| IPI:IPI00001543.1 | 1.169115 | 1.223966 | 0.038786 |
| IPI:IPI00427330.3 | 1.359466 | 1.225118 | 0.094998 |
| IPI:IPI00743879.1 | 1.267257 | 1.225258 | 0.029697 |
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| IPI:IPI00465132.4 | 1.18951  | 1.228539 | 0.027598 |
| IPI:IPI00293748.3 | 1.073421 | 1.232497 | 0.112484 |
| IPI:IPI00853509.2 | 1.536165 | 1.233981 | 0.213677 |
| IPI:IPI00791184.1 | 1.279541 | 1.234812 | 0.031628 |
| IPI:IPI00011913.1 | 1.533028 | 1.23486  | 0.210836 |
| IPI:IPI00009268.2 | 1.046259 | 1.234904 | 0.133392 |
| IPI:IPI00853369.1 | 1.328054 | 1.236585 | 0.064678 |
| IPI:IPI00291467.7 | 1.170839 | 1.238486 | 0.047834 |
| IPI:IPI00419919.5 | 1.296715 | 1.239393 | 0.040533 |
| IPI:IPI00100160.3 | 1.262391 | 1.241146 | 0.015022 |
| IPI:IPI00376220.1 | 1.276606 | 1.242816 | 0.023894 |
| IPI:IPI00022431.2 | 1.548959 | 1.242878 | 0.216431 |
| IPI:IPI00028520.2 | 1.316989 | 1.245811 | 0.05033  |
| IPI:IPI00644231.3 | 1.462788 | 1.24771  | 0.152083 |
| IPI:IPI00297579.4 | 1.471958 | 1.249797 | 0.157091 |
| IPI:IPI00007927.4 | 1.001255 | 1.250509 | 0.176249 |
| IPI:IPI00007334.1 | 1.048377 | 1.250953 | 0.143243 |
| IPI:IPI00021435.3 | 0.605092 | 1.251007 | 0.456731 |
| IPI:IPI00016342.1 | 1.485713 | 1.253613 | 0.164119 |
| IPI:IPI00479307.4 | 1.355877 | 1.253836 | 0.072154 |
| IPI:IPI00006099.1 | 1.713964 | 1.260238 | 0.320833 |
| IPI:IPI00003865.1 | 1.654852 | 1.260673 | 0.278726 |
| IPI:IPI00793322.1 | 1.151204 | 1.26301  | 0.079059 |

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| IPI:IPI00647707.3 | 0.714927 | 1.264301 | 0.388467 |
| IPI:IPI00022228.2 | 1.272906 | 1.264419 | 0.006001 |
| IPI:IPI00885016.1 | 1.238706 | 1.266256 | 0.019481 |
| IPI:IPI00759578.1 | 1.252993 | 1.267097 | 0.009973 |
| IPI:IPI00073602.1 | 1.188554 | 1.269241 | 0.057054 |
| IPI:IPI00012750.3 | 1.44909  | 1.269542 | 0.12696  |
| IPI:IPI00383046.3 | 1.186064 | 1.270892 | 0.059983 |
| IPI:IPI00384517.2 | 1.139977 | 1.271334 | 0.092883 |
| IPI:IPI00815665.1 | 1.316172 | 1.272107 | 0.031159 |
| IPI:IPI00307155.7 | 0.591291 | 1.27218  | 0.481461 |
| IPI:IPI00909303.1 | 0.976748 | 1.277978 | 0.213002 |
| IPI:IPI00900325.1 | 1.048234 | 1.280291 | 0.164089 |
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| IPI:IPI00900380.1 | 1.291933 | 1.286842 | 0.0036   |
| IPI:IPI00873622.2 | 1.425052 | 1.289056 | 0.096164 |
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| IPI:IPI00103027.4 | 0.864759 | 1.293585 | 0.303226 |
| IPI:IPI00023086.3 | 1.116964 | 1.293626 | 0.124919 |
| IPI:IPI00018871.2 | 1.385416 | 1.294561 | 0.064244 |
| IPI:IPI00215928.4 | 1.299281 | 1.294909 | 0.003092 |
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| IPI:IPI00218349.2 | 1.081554 | 1.297477 | 0.152681 |
| IPI:IPI00010951.2 | 1.384486 | 1.298801 | 0.060589 |
| IPI:IPI00745502.2 | 1.223327 | 1.302756 | 0.056164 |
| IPI:IPI00880019.1 | 1.011506 | 1.305211 | 0.207681 |
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| IPI:IPI00058192.1 | 1.342171 | 1.317163 | 0.017683 |
| IPI:IPI00301489.3 | 1.112469 | 1.319083 | 0.146098 |
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| IPI:IPI00010706.1 | 1.237458 | 1.322018 | 0.059793 |
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| IPI:IPI00043598.2 | 0.778953 | 1.322348 | 0.384238 |
| IPI:IPI00183603.3 | 1.673254 | 1.324623 | 0.246519 |
| IPI:IPI00641613.2 | 0.962947 | 1.3273   | 0.257637 |
| IPI:IPI00719806.1 | 1.45629  | 1.332219 | 0.087732 |
| IPI:IPI00465431.8 | 1.268175 | 1.333632 | 0.046285 |
| IPI:IPI00384456.4 | 1.283073 | 1.342346 | 0.041912 |
| IPI:IPI00005087.1 | 0.945952 | 1.343908 | 0.281398 |
| IPI:IPI00477619.2 | 1.321358 | 1.351314 | 0.021182 |
| IPI:IPI00878126.1 | 1.023054 | 1.351458 | 0.232217 |
| IPI:IPI00215911.3 | 1.444131 | 1.354681 | 0.063251 |
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| IPI:IPI00015808.3  | 1.28514  | 1.359834 | 0.052817 |
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| IPI:IPI00020898.1  | 0.952693 | 1.371224 | 0.295946 |
| IPI:IPI00218503.1  | 1.088157 | 1.373123 | 0.201502 |
| IPI:IPI00246975.8  | 1.322717 | 1.376384 | 0.037948 |
| IPI:IPI00001663.1  | 0.986065 | 1.376659 | 0.276192 |
| IPI:IPI00218733.6  | 1.465354 | 1.3783   | 0.061556 |
| IPI:IPI00043215.3  | 1.57069  | 1.378847 | 0.135654 |
| IPI:IPI00900293.1  | 1.292402 | 1.379925 | 0.061888 |
| IPI:IPI00294739.1  | 1.379944 | 1.380363 | 0.000296 |
| IPI:IPI00916111.2  | 1.49633  | 1.380647 | 0.0818   |
| IPI:IPI00009680.3  | 1.208524 | 1.381635 | 0.122408 |
| IPI:IPI00413654.3  | 1.299332 | 1.384199 | 0.06001  |
| IPI:IPI00179330.6  | 1.519642 | 1.385447 | 0.09489  |
| IPI:IPI00026519.1  | 1.336323 | 1.390346 | 0.0382   |
| IPI:IPI00032851.1  | 1.404816 | 1.394957 | 0.006972 |
| IPI:IPI00394758.1  | 1.443268 | 1.404621 | 0.027327 |
| IPI:IPI00871366.1  | 1.341707 | 1.413827 | 0.050997 |
| IPI:IPI00012837.1  | 1.366182 | 1.414777 | 0.034361 |
| IPI:IPI00292020.3  | 1.178852 | 1.421205 | 0.171369 |
| IPI:IPI00910647.1  | 1.349433 | 1.421853 | 0.051209 |
| IPI:IPI00023647.4  | 1.114713 | 1.426456 | 0.220436 |
| IPI:IPI00793751.2  | 1.113153 | 1.426998 | 0.221922 |
| IPI:IPI00914992.1  | 1.634158 | 1.42899  | 0.145076 |
| IPI:IPI00419266.1  | 1.048261 | 1.444424 | 0.28013  |
| IPI:IPI00748303.3  | 1.493866 | 1.446546 | 0.033461 |
| IPI:IPI00293276.10 | 1.38456  | 1.448906 | 0.045499 |
| IPI:IPI00877635.1  | 1.495476 | 1.453075 | 0.029982 |
| IPI:IPI00792746.1  | 1.965659 | 1.457451 | 0.359358 |
| IPI:IPI00473014.5  | 1.329931 | 1.459663 | 0.091734 |
| IPI:IPI00215637.5  | 1.638506 | 1.462464 | 0.124481 |
| IPI:IPI00024163.1  | 1.381707 | 1.462587 | 0.057191 |
| IPI:IPI00305545.2  | 1.475804 | 1.462982 | 0.009067 |
| IPI:IPI00394838.3  | 1.558017 | 1.480408 | 0.054878 |
| IPI:IPI00843789.1  | 1.399436 | 1.491285 | 0.064947 |
| IPI:IPI00872398.1  | 1.309519 | 1.4988   | 0.133842 |
| IPI:IPI00419237.3  | 0.564131 | 1.516336 | 0.673311 |
| IPI:IPI00296337.2  | 1.514625 | 1.519169 | 0.003213 |
| IPI:IPI00854834.2  | 1.47823  | 1.522306 | 0.031166 |
| IPI:IPI00555744.6  | 1.670947 | 1.538345 | 0.093764 |
| IPI:IPI00013860.3  | 1.333482 | 1.539636 | 0.145773 |
| IPI:IPI00883647.1  | 1.631949 | 1.544427 | 0.061888 |
| IPI:IPI00916299.1  | 1.395159 | 1.54541  | 0.106244 |

|                    |          |          |          |
|--------------------|----------|----------|----------|
| IPI:IPI00329536.1  | 1.374429 | 1.545716 | 0.121118 |
| IPI:IPI00915353.1  | 1.37703  | 1.561396 | 0.130367 |
| IPI:IPI00479058.2  | 1.627099 | 1.56879  | 0.041231 |
| IPI:IPI00413671.1  | 1.435228 | 1.576623 | 0.099981 |
| IPI:IPI00006723.5  | 1.411969 | 1.58944  | 0.12549  |
| IPI:IPI00604664.5  | 1.231933 | 1.596999 | 0.25814  |
| IPI:IPI00513827.3  | 1.470191 | 1.607438 | 0.097048 |
| IPI:IPI00219678.3  | 1.089666 | 1.607779 | 0.366361 |
| IPI:IPI00155601.1  | 1.198528 | 1.610488 | 0.2913   |
| IPI:IPI00922511.1  | 1.327015 | 1.621363 | 0.208135 |
| IPI:IPI00157790.7  | 1.480585 | 1.62402  | 0.101424 |
| IPI:IPI00107104.1  | 1.194336 | 1.633873 | 0.310799 |
| IPI:IPI00641181.5  | 1.465668 | 1.636714 | 0.120948 |
| IPI:IPI00017704.3  | 1.663882 | 1.639839 | 0.017001 |
| IPI:IPI00556116.2  | 2.126344 | 1.643782 | 0.341223 |
| IPI:IPI00216659.1  | 1.620478 | 1.649721 | 0.020678 |
| IPI:IPI00797738.1  | 1.760706 | 1.660056 | 0.07117  |
| IPI:IPI00032423.2  | 1.724909 | 1.664041 | 0.04304  |
| IPI:IPI00021840.1  | 1.683265 | 1.674868 | 0.005938 |
| IPI:IPI00003833.3  | 1.783773 | 1.679394 | 0.073807 |
| IPI:IPI00030131.3  | 1.085478 | 1.679576 | 0.420091 |
| IPI:IPI00551024.4  | 1.59662  | 1.680521 | 0.059327 |
| IPI:IPI00011126.6  | 1.42224  | 1.721096 | 0.211323 |
| IPI:IPI00299573.12 | 1.565252 | 1.735808 | 0.120601 |
| IPI:IPI00829808.1  | 1.378994 | 1.752891 | 0.264386 |
| IPI:IPI00789041.2  | 1.538735 | 1.763601 | 0.159004 |
| IPI:IPI00887179.1  | 1.763677 | 1.773779 | 0.007143 |
| IPI:IPI00412243.4  | 1.718559 | 1.78948  | 0.050149 |
| IPI:IPI00554788.5  | 1.736124 | 1.826404 | 0.063838 |
| IPI:IPI00029557.3  | 1.364359 | 1.846561 | 0.340969 |
| IPI:IPI00013122.1  | 1.244125 | 1.86666  | 0.440199 |
| IPI:IPI00306301.2  | 2.250435 | 1.868324 | 0.270193 |
| IPI:IPI00384280.5  | 1.703467 | 1.895144 | 0.135536 |
| IPI:IPI00644418.2  | 2.487446 | 1.936063 | 0.389886 |
| IPI:IPI00549381.5  | 1.496558 | 1.938136 | 0.312243 |
| IPI:IPI00029444.1  | 1.496828 | 1.94307  | 0.31554  |
| IPI:IPI00914926.1  | 0.827897 | 1.956602 | 0.798115 |
| IPI:IPI00412368.3  | 1.287441 | 1.957476 | 0.473786 |
| IPI:IPI00295240.6  | 2.022535 | 1.972116 | 0.035652 |
| IPI:IPI00022019.1  | 3.17497  | 2.00075  | 0.830299 |
| IPI:IPI00220503.9  | 2.502266 | 2.056148 | 0.315453 |
| IPI:IPI00646511.1  | 1.886474 | 2.123373 | 0.167512 |
| IPI:IPI00554648.3  | 1.864134 | 2.146312 | 0.19953  |

|                   |          |          |          |
|-------------------|----------|----------|----------|
| IPI:IPI00304932.2 | 1.892068 | 2.245682 | 0.250043 |
| IPI:IPI00386189.2 | 2.475051 | 2.25318  | 0.156886 |
| IPI:IPI00094740.1 | 1.532161 | 2.284762 | 0.532169 |
| IPI:IPI00473047.2 | 3.125082 | 2.29327  | 0.58818  |
| IPI:IPI00221093.7 | 1.218622 | 2.364021 | 0.809919 |
| IPI:IPI00473031.6 | 2.034753 | 2.386547 | 0.248756 |
| IPI:IPI00782992.3 | 1.93293  | 2.457711 | 0.371076 |
| IPI:IPI00032826.1 | 2.024882 | 2.509003 | 0.342325 |
| IPI:IPI00220834.8 | 2.607831 | 2.868778 | 0.184518 |
| IPI:IPI00332371.9 | 2.869366 | 2.897515 | 0.019904 |
| IPI:IPI00028296.1 | 1.490089 | 3.051459 | 1.104055 |
| IPI:IPI00100460.2 | 2.001736 | 3.140089 | 0.804937 |
| IPI:IPI00221224.6 | 4.952026 | 4.040324 | 0.64467  |
| IPI:IPI00218086.2 | 9.422365 | 8.592757 | 0.586621 |

Table B

| Statistical analysis                          | 116:114-117:115           | Remarks   |
|---|---------------------------|---|
| Average standard deviation in protein ratio   | 0.109029297673382         | The standard deviations between the values obtained in different runs are relatively smaller than 30%.                        |
| Median of standard deviation in protein ratio | 0.0712023801121228        |   |
| Correlation between 2 replicates              | 0.869<br>(p-value <0.001) | Good correlation between values from different runs. This indicates the values obtained from the runs are relatively similar. |

1. Gan, C. S.; Chong, P. K.; Pham, T. K.; Wright, P. C., Technical, experimental, and biological variations in isobaric tags for relative and absolute quantitation (iTRAQ). *Journal of proteome research* **2007**, 6, (2), 821-7.