Table S1: Precision results for the Euroimmun assay using five pooled patient sera.

Samples were tested in replicates of five over five days. Intra-assay variation was <7%, whilst inter-assay variation was <5%.

| Sample | Day 1  | Day 2  | Day 3  | Day 4  | Day 5  | Inter-assay Mean | Inter-assay SD | Inter-assay CV |
|--------|--------|--------|--------|--------|--------|------------------|----------------|---------------|
| 1      | Mean   | 9.00   | 8.43   | 8.59   | 8.43   | 8.64             | 8.62           | 0.235         | 2.724         |
|        | SD     | 0.26   | 0.13   | 0.14   | 0.08   | 0.13             | 0.23           |               |               |
|        | CV     | 2.93   | 1.59   | 1.60   | 0.99   | 1.50             |                |               |               |
| 2      | Mean   | 6.28   | 5.95   | 5.99   | 6.04   | 6.12             | 6.08           | 0.132         | 2.180         |
|        | SD     | 0.11   | 0.19   | 0.13   | 0.16   | 0.28             |                |               |               |
|        | CV     | 1.69   | 3.26   | 2.18   | 2.64   | 4.50             |                |               |               |
| 3      | Mean   | 3.72   | 3.52   | 3.55   | 3.67   | 3.67             | 3.62           | 0.087         | 2.409         |
|        | SD     | 0.11   | 0.12   | 0.04   | 0.19   | 0.11             |                |               |               |
|        | CV     | 2.84   | 3.52   | 1.13   | 5.17   | 2.93             |                |               |               |
| 4      | Mean   | 2.07   | 1.90   | 1.99   | 1.99   | 1.99             | 1.99           | 0.062         | 3.102         |
|        | SD     | 0.04   | 0.03   | 0.06   | 0.09   | 0.08             |                |               |               |
|        | CV     | 2.16   | 1.72   | 3.12   | 4.42   | 4.04             |                |               |               |
| 5      | Mean   | 1.07   | 0.98   | 1.02   | 0.99   | 1.03             | 1.02           | 0.037         | 3.620         |
|        | SD     | 0.07   | 0.01   | 0.04   | 0.02   | 0.07             |                |               |               |
|        | CV     | 6.28   | 0.55   | 3.76   | 2.46   | 6.60             |                |               |               |
Table S2: Determination of linear range of Euroimmun assay using serially diluted pooled patient sera. Pooled serum samples at dilutions of 2, 4 and 8 were removed due to OD saturation.

| Source            | Dilution | Index (mean) | SD   |
|-------------------|----------|--------------|------|
| Patient pool      | 16       | 8.617        | 0.235|
|                   | 32       | 6.077        | 0.132|
|                   | 64       | 3.624        | 0.087|
|                   | 128      | 1.987        | 0.062|
|                   | 256      | 1.018        | 0.037|
| NIBSC calibrant   | 5        | 7.636        | 0.793|
|                   | 10       | 6.000        | 0.279|
|                   | 20       | 3.673        | 0.261|
|                   | 50       | 1.820        | 0.100|
|                   | 100      | 1.029        | 0.045|
|                   | 200      | 0.614        | 0.013|