**Supplementary Figure 1.** Comparison of Patient Samples Measured by LC-MS/MS and Immunoassay for Standardization of Immunoassay



**Supplementary Figure 2.** Repeatability and Within-laboratory CV of Assay Controls and Spiked Whole Blood in Total Aripiprazole POC Immunoassay



**Supplementary Figure 3.** Linearity Measurement of the Immunoassay



**Supplementary Figure 4.** Measured Deviation from Linearity for All Spiked Samples



**Supplementary Table 1.** Summary of Endogenous Interference Results

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Endogenous Substance** | **Substance Concentration** | **Total Aripiprazole Level** | **Mean Control Value (ng/mL)** | **Mean Testing Value (ng/mL)** | **% Interference** |
| Rheumatoid Factor | 510 IU/mL | Low | 107 | 104 | -2% |
| High | 774 | 765 | -1% |
| Human Serum Albumin | 6.1 g/dL | Low | 118 | 115 | -3% |
| High | 831 | 831 | 0% |
| human IgG | 6.1 g/dL | Low | 127 | 129 | 2% |
| High | 936 | 908 | -3% |
| Bilirubin | 44 mg/dL | Low | 121 | 124 | 3% |
| High | 894 | 885 | -1% |
| Triglycerides | 1,600 mg/dL | Low | 127 | 120 | -5% |
| High | 936 | 822 | -12% |
| Hemolysate | 1,050 mg/dL | Low | 127 | 129 | 2% |
| High | 936 | 948 | -1% |
| Low Haematocrit | ≤ 11.5 g/dL (35%) | Low | 137 | 140 | 2% |
| High | 947 | 941 | -1% |
| High Haematocrit | ≥ 18.5 g/dL (55%) | Low | 137 | 130 | -5% |
| High | 947 | 887 | -6% |