

Table

Analytical parameters of the calibration equations for the determination of U-47700 and its major metabolites in biological tissues – liver, serum and brain (n = 5).

| | Tissue | Concentration range (ng/100 mg) | Regression equation | Correlation coefficient R^2 |
|---------------------------------|--------|------------------------------------|---------------------|-------------------------------------|
| U-47700 | Serum | 25 - 5000 | $y=0.0018x-0.0334$ | 0.9987 |
| | Liver | | $y=0.0017x-0.0442$ | 0.9982 |
| | Brain | | $y=0.002x+0.034$ | 0.9994 |
| N-desmethyl- U-47700 | Serum | 25 - 5000 | $y=0.0012x+0.0071$ | 0.9979 |
| | Liver | | $y=0.0009x+0.1056$ | 0.9761 |
| | Brain | | $y=0.0013x+0.0454$ | 0.9957 |
| N,N- didesmethyl- U-47700 | Serum | 25 - 5000 | $y=0.031x-1.1227$ | 0.9863 |
| | Liver | | $y=0.0293x-1.19$ | 0.9797 |
| | Brain | | $y=0.0245x+0.3201$ | 0.998 |

Accuracy and precision for U-47700 and its major metabolites in biological tissues – liver, serum and brain samples.

| U-47700 | | Concentration added | %R.S.D. |
|-------------------------|---------------------|---------------------|---------|
| Intraday (n = 4) | Serum (ng/100ml) | 25 | 1.2 |
| | | 250 | 2.2 |
| | | 5000 | 7.72 |
| | Liver (ng/100mg) | 100 | 6.33 |
| | | 500 | 7.64 |
| | | 5000 | 4.88 |
| | Brain (ng/100mg) | 25 | 11.80 |
| | | 250 | 1.23 |
| | | 5000 | 10.28 |
| N-desmethyl-U-47700 | | | |
| Intraday (n = 4) | Serum (ng/100ml) | 25 | 14.31 |
| | | 250 | 3.47 |
| | | 5000 | 11.19 |
| | Liver (ng/100mg) | 100 | 8.98 |
| | | 500 | 8.24 |
| | | 5000 | --- |
| | Brain (ng/100mg) | 25 | 2.69 |
| | | 250 | 10.02 |
| | | 5000 | --- |
| N,N-didesmethyl-U-47700 | | | |
| Intraday (n = 4) | Serum (ng/100ml) | 25 | 14.19 |
| | | 250 | 3.14 |
| | | 5000 | --- |
| | Liver (ng/100mg) | 100 | 13.44 |
| | | 500 | 9.40 |
| | | 5000 | ---- |
| | Brain (ng/100mg) | 25 | 9.69 |
| | | 250 | 3.13 |
| | | 5000 | ---- |