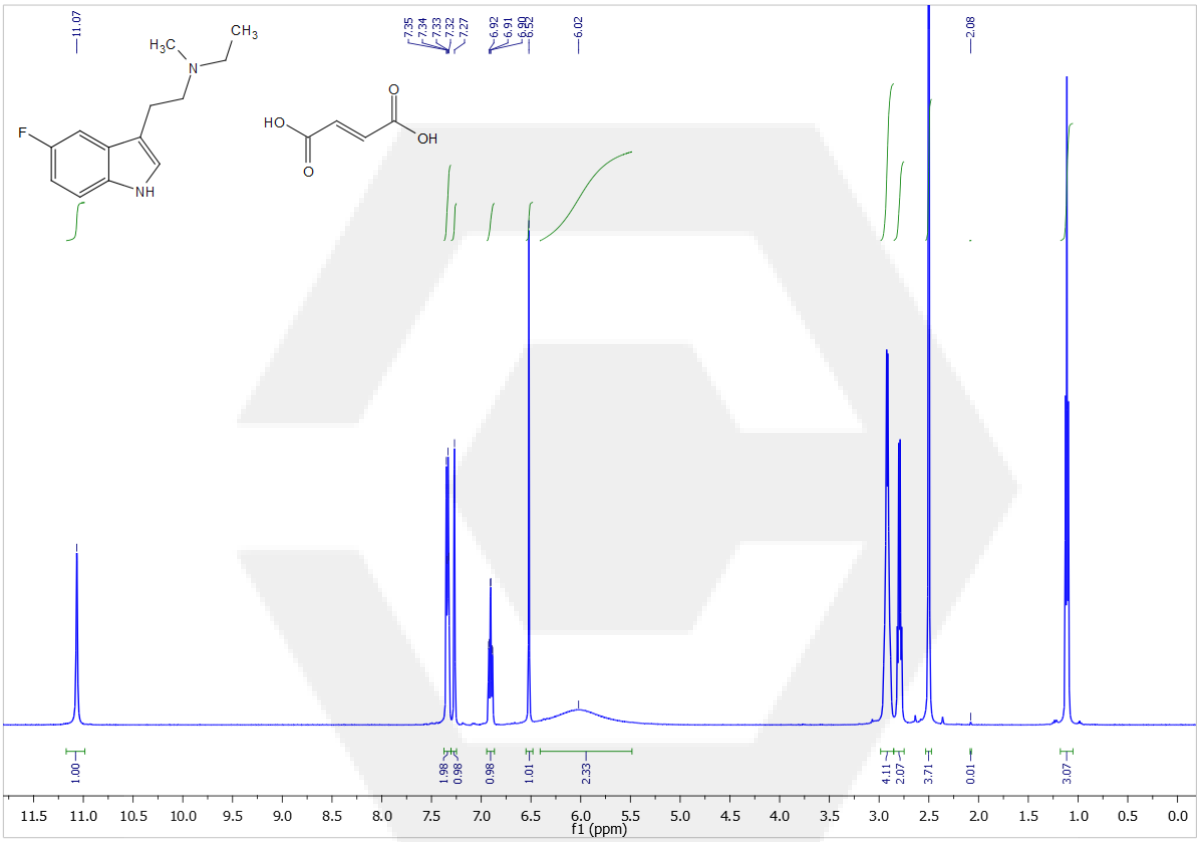
^{1}H NMR analysis report

Batch No.: 5FM-01 **Date:** 12/2/2026

Instrument: Bruker 500 MHz
Solvent: dimethylsulfoxide-d_6 (DMSO-d_6; spectra not calibrated due to signal overlap at 2.50 ppm)

Results:
Data consistent with the proposed structure: Yes
Estimated purity: >99%



^{1}H NMR (DMSO-d_6), integrated.

^{1}H NMR (500 MHz, DMSO-d_6) δ (ppm): 11.07 (bs, 1H, NH), 7.37 – 7.30 (m, 2H, Ar-H), 7.27 (s, 1H, Ar-H), 6.91 (td, J = 9.3, 2.1 Hz, 1H, Ar-H), 6.52 (s, 1H, CH), 6.02 (vbs, 2H, NH), 2.98 – 2.87 (m, 4H, 2 × CH_2), 2.80 (q, J = 7.1 Hz, 2H, CH_2), 2.50 (s, 3H, CH_3), 1.11 (t, J = 7.2 Hz, 3H, CH_3).

Notes:

The NMR spectrum corresponds to the expected structure – 5F-MET [IUPAC: *N*-ethyl-2-(5-fluoro-1*H*-indol-3-yl)-*N*-methylethanamine]. The compound is present as fumaric acid salt (hemifumarate, 5-F-MET:fumaric acid 2:1); confirmed by relative signal integration (Ar-H vs. fumarate CH=CH at δ = 6.52 ppm).

The sample is highly pure and contains no NMR active impurities, only trace amount (<0.1%) of acetone was detected.