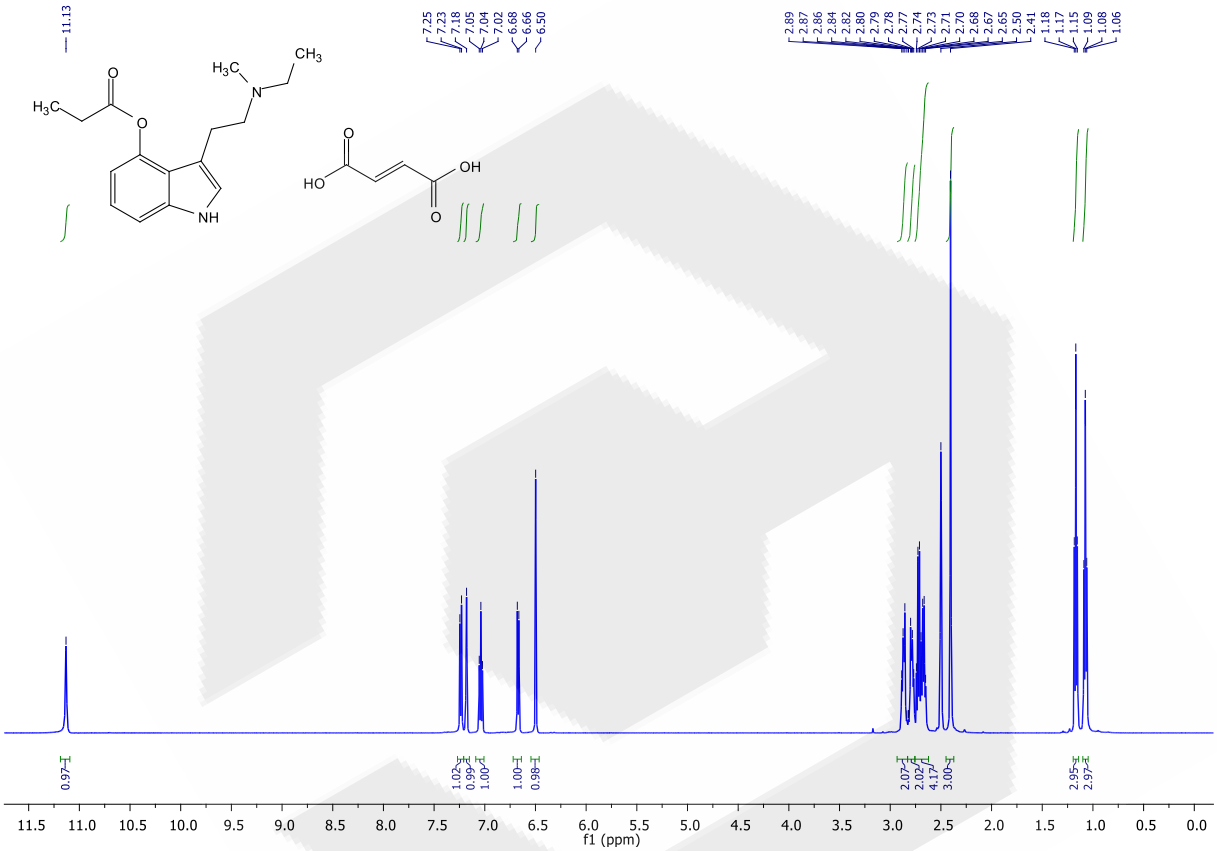
## $^1$H NMR analysis report

**Batch No.:** 4PRM-02 **Date:** 30/3/2026

**Instrument:** Bruker 500 MHz
**Solvent:** dimethylsulfoxide-$d_6$ (DMSO-$d_6$; spectra cal. to residual solvent peak, δ = 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):** 11.13 (bs, 1H, NH), 7.24 (d, $J$ = 8.1 Hz, 1H, Ar-H), 7.18 (s, 1H, Ar-H), 7.04 (t, $J$ = 7.9 Hz, 1H, Ar-H), 6.67 (d, $J$ = 7.6 Hz, 1H, Ar-H), 6.50 (s, 1H, CH), 2.93 – 2.83 (m, 2H, $CH_2$), 2.83 – 2.75 (m, 2H, $CH_2$), 2.75 – 2.61 (m, 4H, 2 × $CH_2$), 2.41 (s, 3H, $NCH_3$), 1.17 (t, $J$ = 7.5 Hz, 3H, $CH_3$), 1.08 (t, $J$ = 7.2 Hz, 3H, $CH_3$).

**Notes:**

The NMR spectrum is consistent with the proposed structure of 4-PrO-MET (IUPAC: 3-{2-[ethyl(methyl)amino]ethyl}-1*H*-indol-4-yl propionate). The compound is present as fumarate salt (hemifumarate; 4-PrO-MET:fumaric acid = 2:1), as confirmed by signal integration comparing the aromatic protons with the fumarate CH=CH resonance at δ = 6.50 ppm.

The purity of the substance is high according to the $^{1}$H NMR spectrum (>99%), with no NMR-active impurities detected except for a trace amount of acetone and methanol (both <0.05% w/w).