

¹H NMR analysis report

Batch No.: 4HOM-01

Date: 29/2/2026

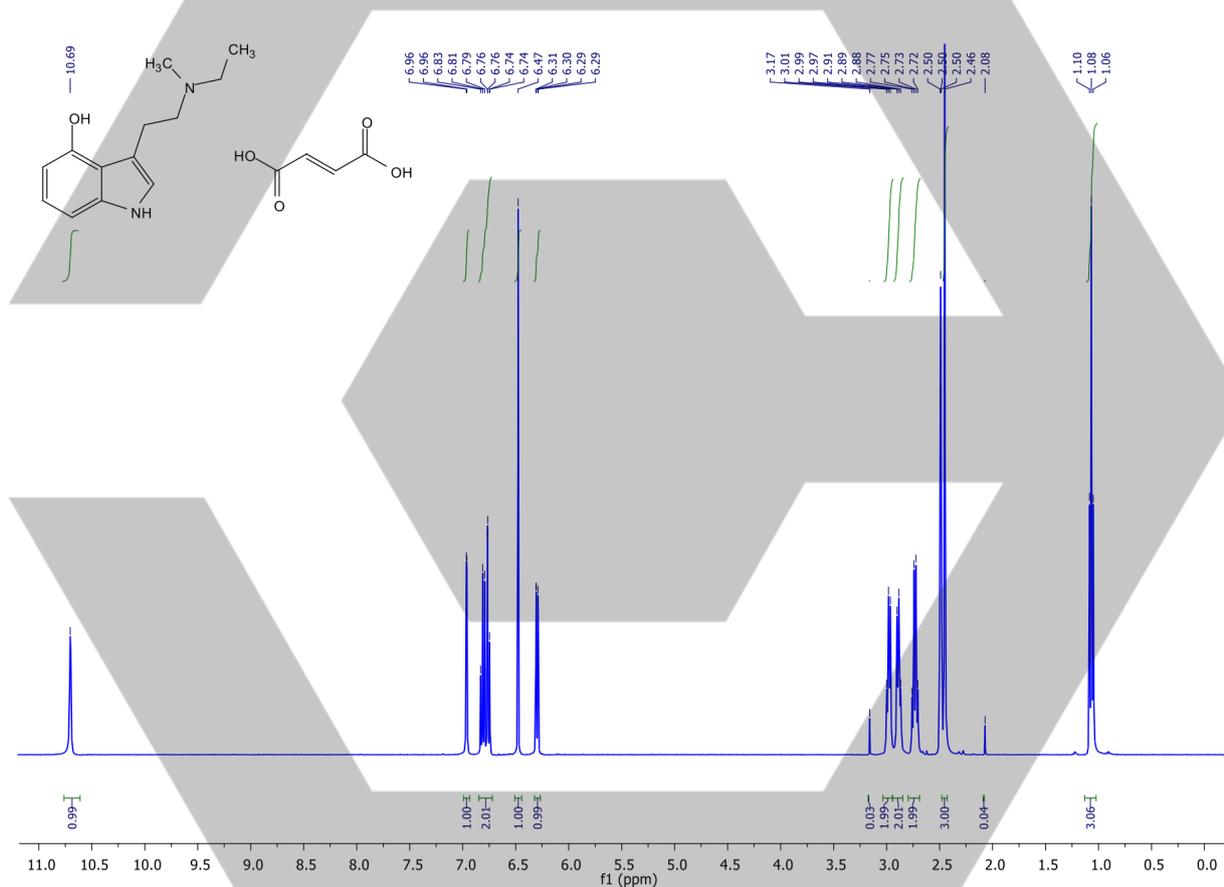
Instrument: Bruker 400 MHz

Solvent: dimethylsulfoxide-d6 (DMSO-d6; spectra cal. to residual solvent peak, $\delta = 2.50$ ppm)

Results:

Data consistent with the proposed structure: Yes

Estimated purity: >99%



¹H NMR (DMSO-d6), compd and imp integrated.

¹H NMR (400 MHz, DMSO-d6) δ (ppm): 10.69 (bs, 1H), 6.96 (d, $J = 2.1$ Hz, 1H), 6.84 – 6.73 (m, 2H), 6.47 (s, 1H), 6.30 (dd, $J = 7.3, 0.8$ Hz, 1H), 3.03 – 2.95 (m, 2H), 2.94 – 2.85 (m, 2H), 2.74 (q, $J = 7.2$ Hz, 2H), 2.46 (s, 3H), 1.08 (t, $J = 7.2$ Hz, 3H).

Notes:

~~The~~ ~~HO-MET~~ NMR spectrum corresponds to the expected structure – IUPAC: 3-{2-[ethyl(methyl)amino]ethyl}-1H-indol-4-ol. The compound is present as fumarate (hemifumarate, 4-HO-MET:fumaric acid 2:1), confirmed by signal integration (Ar-H vs. fumarate CH=CH at $\delta = 6.69$ ppm).

The sample is of very high quality, with an estimated active ingredient assay of >99% based on spectra integration. Only trace amount of solvents – acetone (0.13% w/w; singlet at 2.08 ppm; I = 6) and methanol (0.11% w/w; singlet at 3.17 ppm; I = 3) – were detected as NMR-active contaminants.