

NMR Measurement Report

Sample name: AC-28

12-3-2024

Spectrometer: Bruker 600 MHz

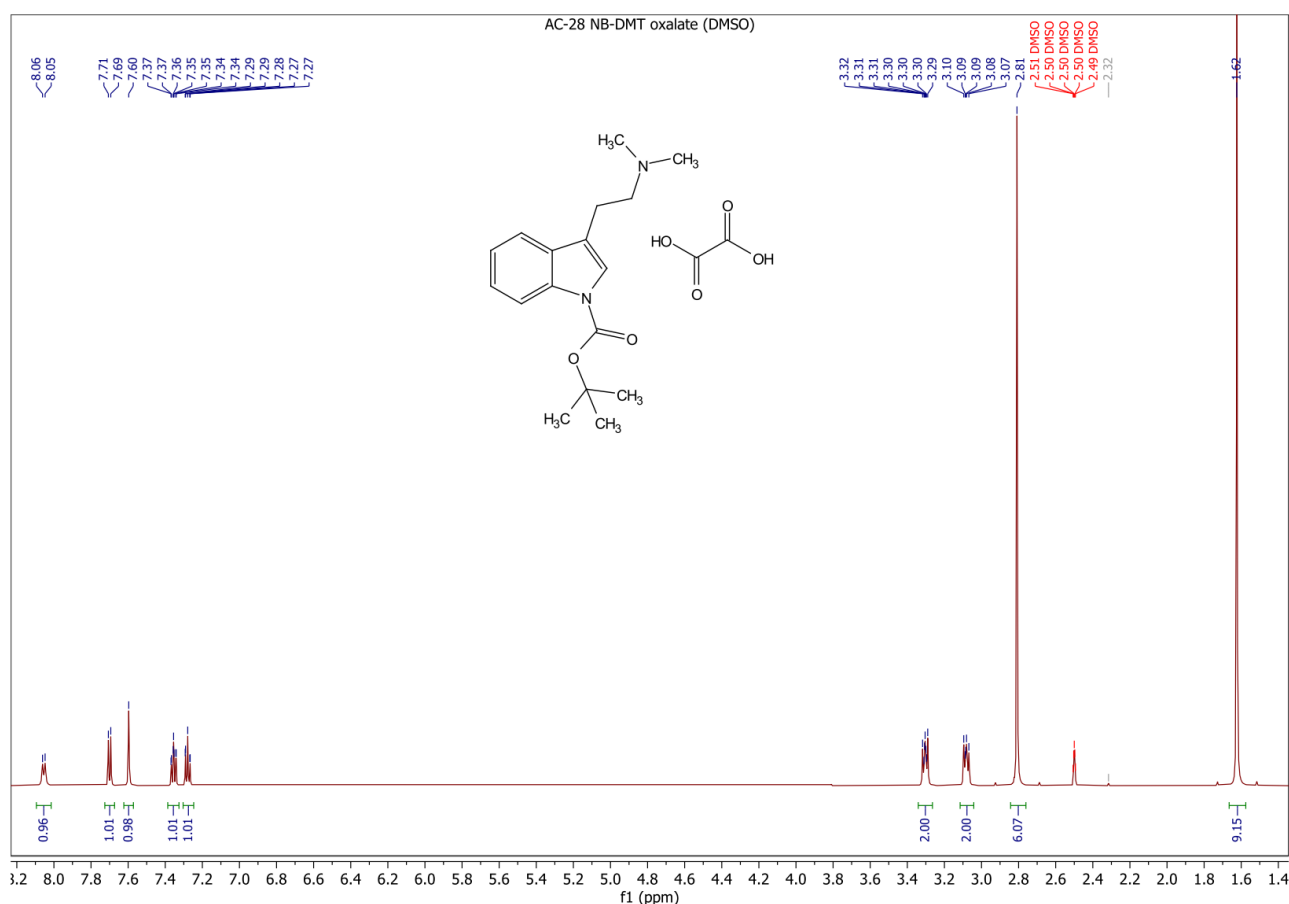
Solvent: DMSO-*d*6

Expected compound: NB-DMT oxalate

Identified compound: NB-DMT oxalate (likely counterion, no proof)

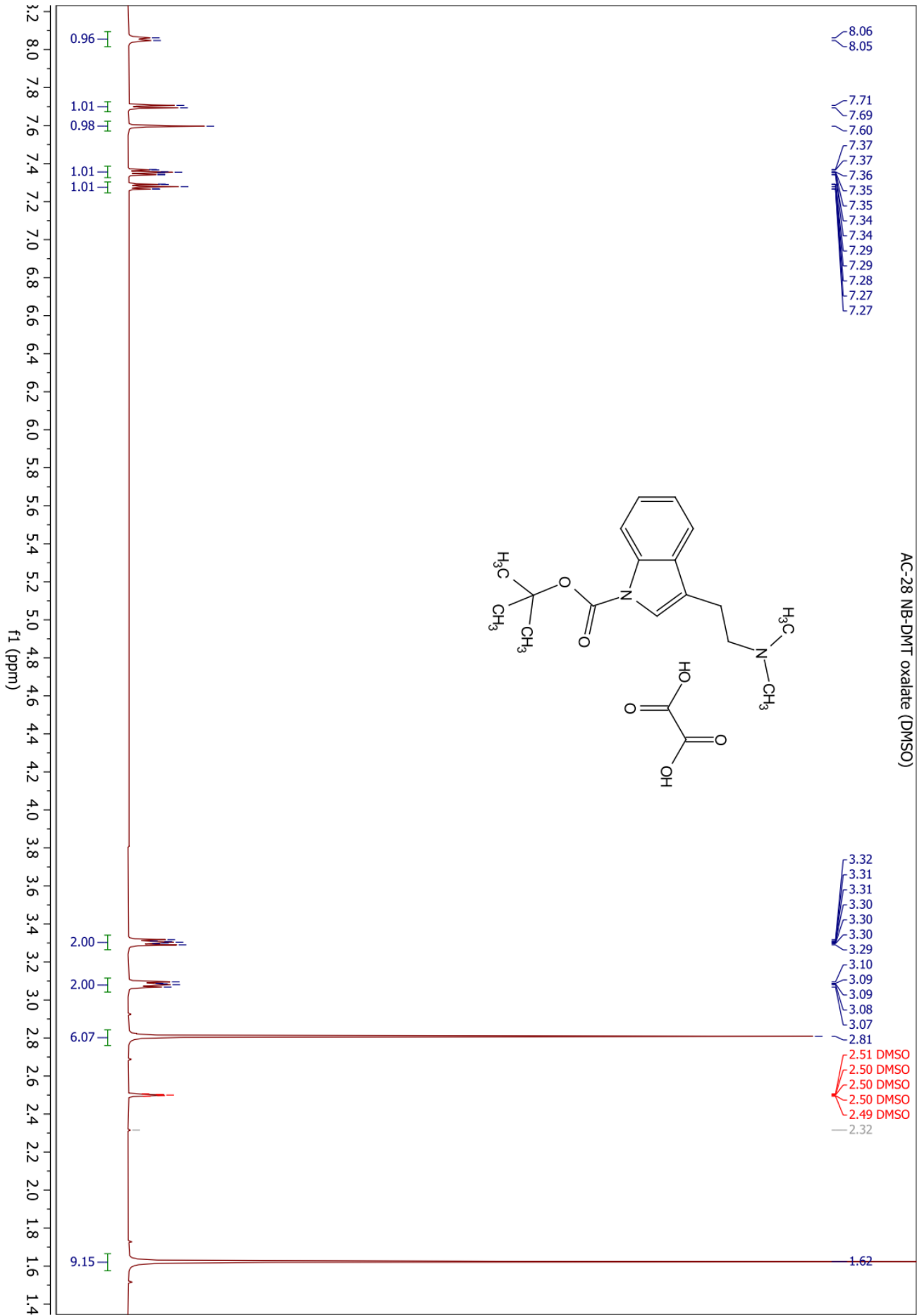
N,N-Dimethyl-*tert*-butyl-3-(2-aminoethyl) 1*H*-indole-1-carboxylate

Estimated purity: >99%



Lab Notes: The sample contained the expected compound NB-DMT presumably in its oxalate salt form with only minimal trace impurities (<1%). ¹H NMR is not capable of detecting oxalate ions due to their lack of protons. A ¹³C NMR or elemental analysis measurement (not currently provided by me) would be the simplest reliable ways to test for the presence of an oxalate counterion. Wet-chemical methods for oxalate detection require no instruments and might therefore be even simpler, although they are less robust and difficult to interpret if the observations differ from the expectations.

¹H NMR: full non-empty spectrum



¹H NMR: cut and zoomed spectrum

