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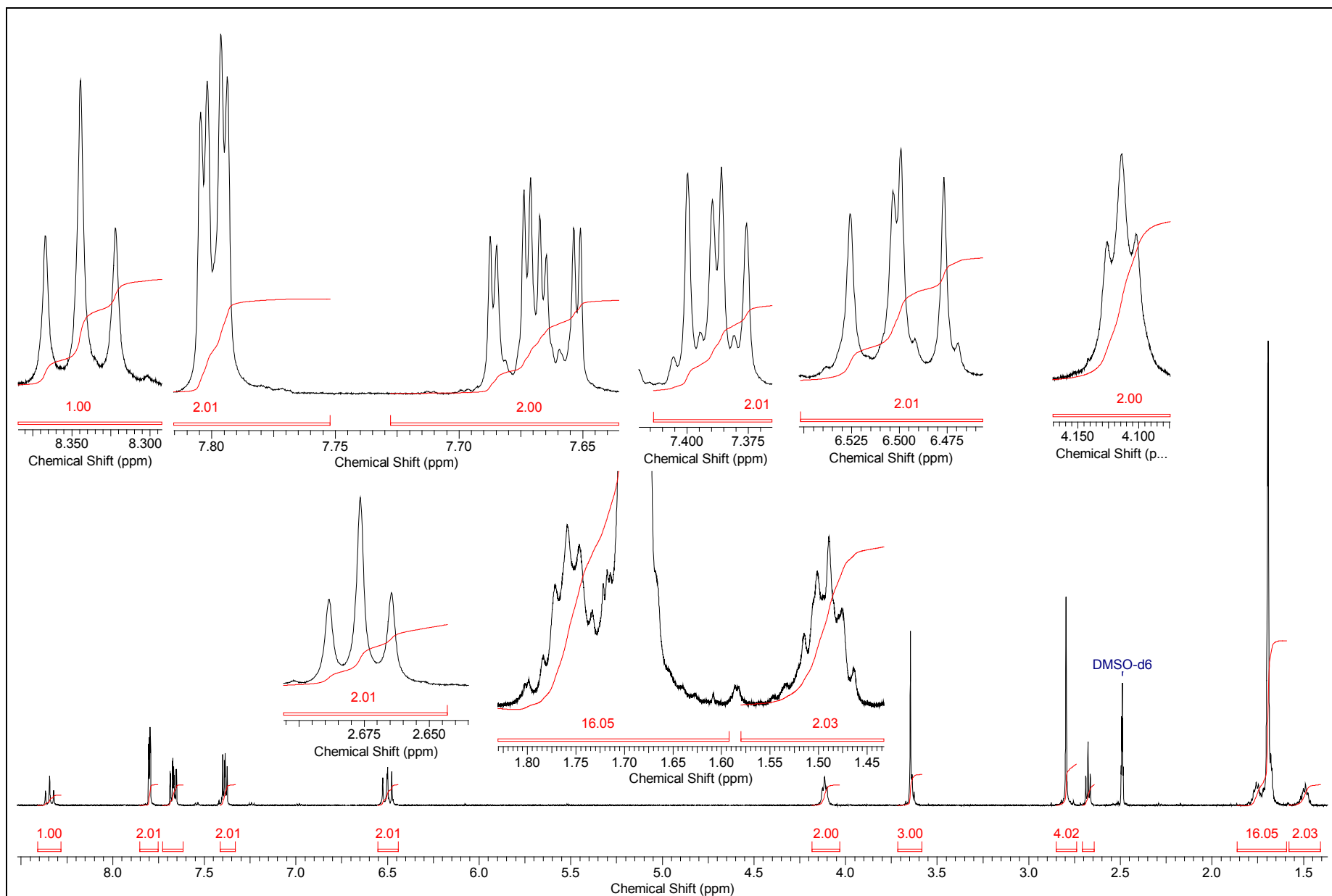
CERTIFICATE OF ANALYSIS

Date 02/23/2013

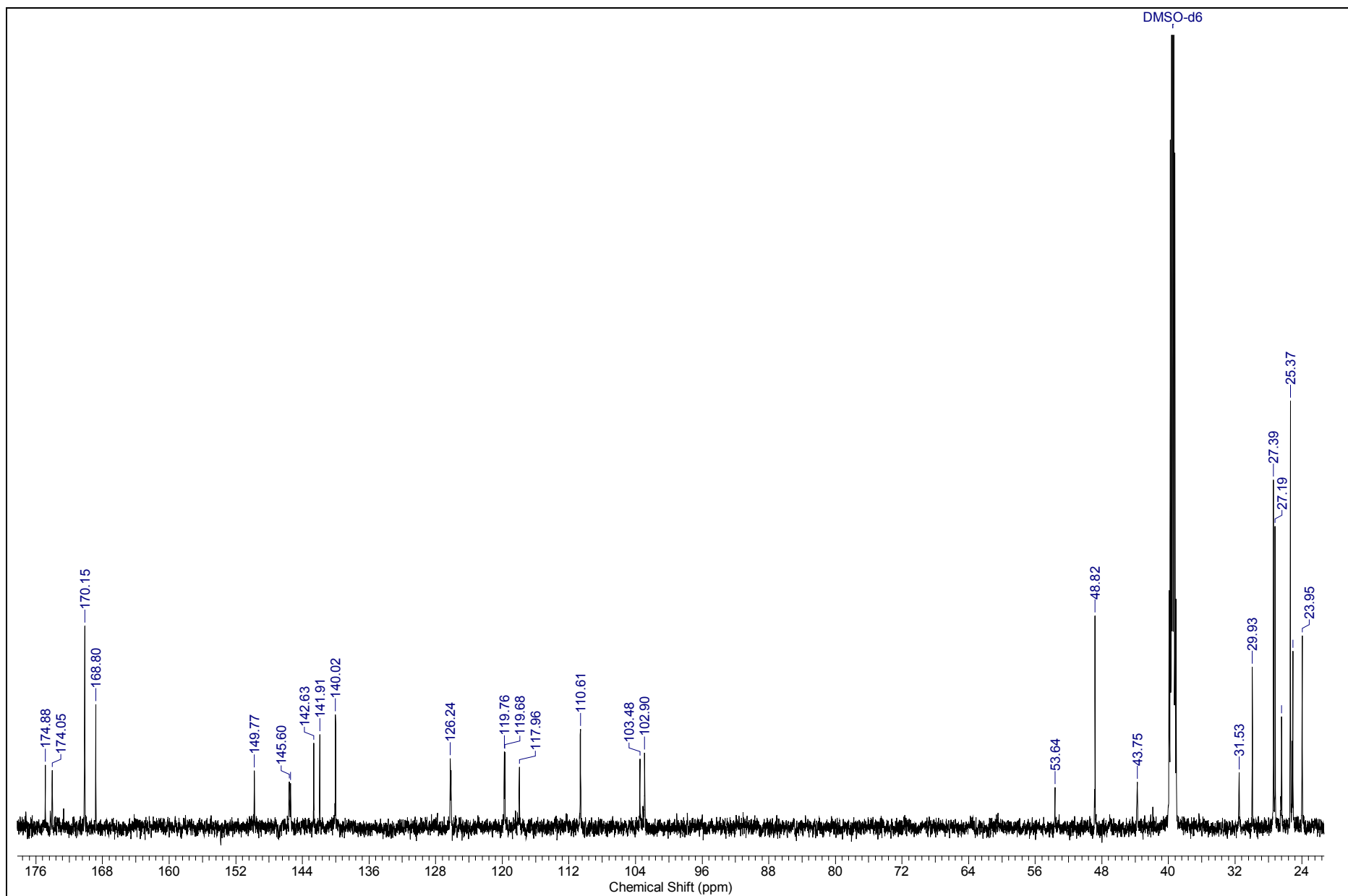
| | | | | |
|----------------------|-------------------------|-----------------|-----------------------------------------------|----------------|
| Product name: | diSulfo - Cy3 NHS Ester | cat. no. | Lot 10017, Lot 20017, Lot 30017, Lot 40017 | |
| Structure | | | | |
| FW | | | | 735.8 |
| Appearance | | | | dark red solid |
| Purity | | | | 95+% |

QUALITY CONTROL

| | | |
|---------------------------|------|------------------------------------------------|
| ¹H NMR | 95+% | Analytical Data page 1 |
| ¹³C NMR | 95+% | Analytical Data page 2 |
| TLC | pass | major spot in 15% MeOH in CHCl ₃ |
| Functional testing | pass | reaction with 6-aminohexanol controlled by TLC |



^1H NMR ($\text{DMSO-}d_6$, 600 MHz)



¹³C NMR (DMSO-d₆, 150 MHz)