Supplementary Materials: Hydrogen/Deuterium Dynamics in Hydroxyl Salts Co$_2$(OH)$_3$Br/Co$_2$(OD)$_3$Br Revealed by Muon Spin Relaxation

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**Figure S1**: Temperature dependence of the $d\varepsilon/dT$ for (a) Co$_2$(OD)$_3$Br and (b) Co$_2$(OH)$_3$Br, respectively, measured at frequencies of 100, 10, and 1 kHz.
Figure S2: Temperature dependence of the exponential relaxation rates $\lambda_1$ and $\lambda_2$ for Co$_2$(OH)$_3$Br/Co$_2$(OD)$_3$Br.

Figure S3: The temperature dependence of the nuclear dipolar line widths $\Delta$ for Co$_2$(OH)$_3$Br/Co$_2$(OD)$_3$Br.