Representative measured and simulated ESI-TOF-MS spectra of the various complexes.

**Supplementary material (S1)**

Electronic Supplementary Material (ESI) for Dalton Transactions
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Buglyo et al., Dalton Trans., 2011
DOI: 10.1039/c1dt11405k
Supplementary material (S2)

UV-VIS spectra registered in the [Ru(η⁶-p-cym)(H₂O)₃]²⁺ – Cl⁻ system at pH = 1.40, c_Ru = 0.54 mM. Ru:Cl 1:0 (1), 1:1 (2), 1:2 (3), 1:3 (4), 1:4 (5), 1:6 (6), 1:10 (7), 1:15 (8), 1:20 (9)
Concentration distribution curves calculated for the \([\text{Ru}(\eta^6\text{-p-cym})(\text{H}_2\text{O})_3]^{2+} - \text{Cl}^-\) system at \(c_{\text{Ru}} = 1.00 \mu\text{M}\) and \(c_{\text{Cl}^-} = 104 \text{ mM (a), } c_{\text{Cl}^-} = 23 \text{ mM (b) and } c_{\text{Cl}^-} = 4 \text{ mM (c). For clarity “Ru” stands for the } [\text{Ru}(\eta^6\text{-p-cym})]^{2+} \text{ entity.}

**Supplementary material (S3)**

Concentration distribution curves calculated for the \([\text{Ru}(\eta^6\text{-p-cym})(\text{H}_2\text{O})_3]^{2+} - \text{Cl}^-\) system at \(c_{\text{Ru}} = 1.00 \mu\text{M}\) and \(c_{\text{Cl}^-} = 104 \text{ mM (a), } c_{\text{Cl}^-} = 23 \text{ mM (b) and } c_{\text{Cl}^-} = 4 \text{ mM (c). For clarity “Ru” stands for the } [\text{Ru}(\eta^6\text{-p-cym})]^{2+} \text{ entity.}