**Allosteric Deprogramming of a Trinuclear Heterometallic Helicate.**
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**Electronic Supporting Information**

![Mass spectrum](image)

**Fig. 1** Mass spec of $[\text{Zn}_2\text{Cu}(\text{L}^1)_2]^{5+}$ plus 20 equivalents of $\text{Ba(ClO}_4)_2$.

The ions at $m/z$ 1102, 1214, 1326, 1439 are all triply charged and are all linked by loss of $\text{Ba(ClO}_4)_2$ (i.e. 112 which is 336/3).
Fig. 2 The observed (top) and calculated (bottom) isotopic distribution pattern of \{[\text{ZnBa}(L^1)](\text{ClO}_4)_2\}^{2+}.