Supporting Information

NHC Ligand-Based Half-Sandwich Iridium Complexes: Synthesis, Structure and Catalytic Activity in Acceptorless Dehydrogenation and Transfer Hydrogenation

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Figure S1. $^1$H NMR spectra of A1

Figure S2. $^1$H NMR spectra of A2
Figure S3. $^1$H NMR spectra of A3

Figure S4. $^1$H NMR spectra of A4
Figure S5. $^1$H NMR spectra of L1

Figure S6. $^1$H NMR spectra of L2
Figure S7. $^1$H NMR spectra of L3

Figure S8. $^1$H NMR spectra of L4
Figure S9. $^1$H NMR spectra of 1

Figure S10. $^{13}$C NMR spectra of 1
Figure S11. $^1$H NMR spectra of 2

Figure S12. $^{13}$C NMR spectra of 2
Figure S13. $^1$H NMR spectra of 3

Figure S14. $^{13}$C NMR spectra of 3
Figure S15. $^1$H NMR spectra of 4

Figure S16. $^{13}$C NMR spectra of 4