

## CONCLUSIONS

Study of chiral amino acids synthons resulted in:

- 1 a deeper understanding of the intramolecular interactions affecting the stereochemistry of alkylation of the metallocomplex  $\alpha$ -amino acids synthons. The interactions are a valuable tool for evaluation of the stereochemistry of the complexes;
- 2 the disclosure of new phenomena in NMR spectroscopy (unexpected long-range couplings);
- 3 synthesis of the stereospecific synthon of glycine;
- 4 the continuing development of diagnostic tools for the clinical diagnostic of some tumours.
- 5 the development of an environmentally-friendly procedure for multikilogram-scale preparation of starting metallocomplex chiral synthons of  $\alpha$ -amino acids.