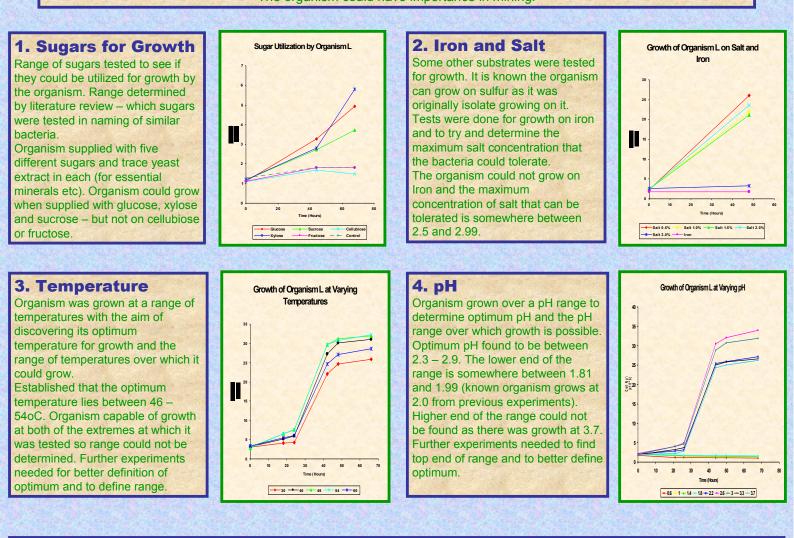
Characterization of a Novel Bacterial Strain

Introduction

Thousands of bacterial species exist which have not yet been cultured and characterized. When a bacterium is isolated it can easily be checked whether that bacterial strain has been isolated and/or named before, and which bacterial strains it is closely related to. Many novel bacteria are isolated frequently but only those strains of significant importance are named. To name a bacteria it must be characterized according to a defined protocol. The organism characterized in this research is an actinobacterium. Many closely related strains have been discovered but previously no-one has been able to culture one. Thus none have been named and so as well as naming a new strain, a new species will also be named. The organism could have importance in mining.



Conclusions and Experiences of the URSS Scheme

Although all the necessary experiments required for naming of the bacteria were completed, a few further experiments need to be carried out before naming can be achieved. Namely, further work into finding the optimum pH and temperature, and these experiments would be carried out over the narrow ranges mentioned previously.

The scheme has been an invaluable experience in terms of furthering scientific skills, learning new methods and gaining an insight into how research is conducted at the highest levels. Various research skills have been learnt, including problem solving and efficient planning, and in this way the scheme has been extremely beneficial in preparation for future research as a PhD student. The prospect of undertaking research was initially daunting but the support, organisation and advice supplied by the URSS team were a great help throughout.



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