

P007 A new rapid protein extraction procedure from plants and fungi
Joy Okpuzor, David Keszenman-Pereyra and Geoffrey Turner
*Department of Molecular Biology and Biotechnology, Krebs
Institute for Biomolecular Research, University of Sheffield,
Firth Court, Western Bank, Sheffield S10 2TN, UK*

Traditional protein extraction procedures from plants and fungi are time consuming and expensive and most of them performed under denaturing conditions. We developed a simple, efficient and inexpensive procedure that can be performed in 30 minutes. *Voandrea subterranea* (L.) thouras (Bambara groundnut) and *Aspergillus nidulans* mycelia were pulverised under liquid nitrogen and then treated with YeastBuster reagent (Novagen). Soluble fractions were recovered after centrifugation; insoluble fractions were resuspended in a buffer containing thiourea. Protein patterns from the soluble fractions were similar to previously described denaturing procedures. Since soluble fractions are obtained under non-denaturing conditions, protein extracts will be useful for *in vitro* enzyme activities.