



Research for obtaining from affordable natural mineral sources, agreed to replace some synthetic animal feed additives

Viorica TAMAȘ, Daniela BELALĂ, F. IONESCU, Mariana POPESCU, Mihaela NEAGU - S.C.
Hofgal Export-Import S.A., Bucharest

The current project refers to studies of the composition of natural nutritive substances carried out on inexpensive plant material, that result as by-products in processes for obtaining certain phytotherapeutic preparations from sea buckthorn (*Hippophaë rhamnoides*) leaves, the by-product cakes resulting from the extraction of green barley (*Hordeum vulgare*) juice, Jerusalem artichoke (*Helianthus tuberosus*) tubers, the above-ground parts of pendant amaranth (*Amaranthus caudatus*), with regards to utilising these as natural animal feed additives.

Content in minerals, proteins, enzymes, sugars, flavones, and PPCAs, as well as the antioxidant capacity of the plant materials and certain enzymes of interest for animal nutrition were studied. The results obtained are favourable, indicating as much a great variety and quantity of minerals (over 15 - 20) in all of the plant products researched, and protein quantities (of over 12%) that are competitive with those of cereal products.