

The invention relates to a method and a system for preparing waste-free extraction meal from the seeds of conventional sunflowers for animal feed for monogastrics or ruminants. The extraction meal from shell kernels and shells with adherent kernel parts is mechanically structured, chunks of extraction meal material are comminuted, kernel parts adhering to the shells are removed and the shells are coarsely comminuted while maintaining and improving the structure and the structured particles are separated into two fractions containing various amounts of crude proteins and crude fibers, one protein-rich fraction which is suitable for feeding monogastrics is obtained and one fraction containing crude fibers which is suitable for feeding ruminants is obtained, being subjected to a decomposition process in order to increase nutritive value and digestibility.