

HALCAPPLUS™ - Halal Capsule Gelatin using Lesser Bovine Source

TECHNOLOGY DESCRIPTION

This technology relates to use of bovine gelatin as animal gelatin source for bioencapsule beads.

TECHNOLOGY FEATURES

This invention able to produce halal capsules by using six times less amount of halal gelatin. Therefore, more halal capsules could be produced for SME at economical price without relying much on imported gelatin. In addition, the capsules are equipped with targeted delivery technology which allow the delivery of medicine and other functional ingredients safely to the intestinal tract without being destroyed by the stomach acids and bile salts. Indeed, the bioencapsule beads have the capability of providing an alternative source for probiotic delivery in pharmaceutical and nutraceutical products, preferably consumed by Muslim consumers.

ADVANTAGES

- Available in various sizes and colour combinations
- Cheaper compared with current technology available

INDUSTRY OVERVIEW

Prospect: Healthcare Industry, Pharmaceutical Industry

The global gelatin market is projected to reach \$3.2 billion market by 2020. Pharmaceuticals and nutraceuticals are the second and third largest application categories of gelatin after food, accounting for 26 percent and 21 percent, respectively of the total market, implying a \$1.3 billion market in 2015. Gelatin is a key ingredient in processed foods, but it is also used in hard and soft capsules for prescription drugs and vitamin supplements. The pharmaceutical development hubs are predominantly in North America and Europe. Although halal gelatin has become more important in the pharmaceutical sector as Muslim emerging markets have a substantial growth rate, they has yet to become widely available. This invention relates to use of bovine gelatin as animal gelatin source for bioencapsule beads. These bioencapsule beads have the capability of providing an alternative source for probiotic delivery in pharmaceutical and nutraceutical products preferably consume by Muslim consumers. This invention is able to produce halal capsules using six times less amount of halal gelatin. Therefore, more halal capsules could be produced for SMEs at economical price. In addition, the capsules are equipped with targeted delivery technology which allow the delivery of medicine and other functional ingredients safely to the intestinal tract. There are 637 SMEs that operate in healthcare industry and 342 in pharmaceutical industry that might be interested in this product. In addition, there are 214 private facilities, 132 government hospitals, 9 special medical institutions. 1039 health clinics, 1821 community clinics, and 254 1Malaysia Clinics respectively in Malaysia.



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