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## \$OJHULDQ IHUPHQWHG EXWWHU <sup>3</sup>Smen/Dhan ´ OLSRO\WLF ÀRUD FF OLSDVH SURGXFWLRQ

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n Algeria, traditional dairy products are prepared according to know-how inherited by rural women. ese products are part of the Algerian heritage and have a great cultural and economic importance. Among these foods, fermented bu "Smen/Dhan" prepared from fresh butter according to di erent processes. During the maturation, the product develop organoleptic and nutritional qualities whose lipolysis is the main mechanism of this transformation and this activity could arise from the microbial cells. e aim of this work is the search and isolation of lipase-producing microbial strains from the 'Smen/Dhan" and evaluates their potential. Isolation of lipolytic strains was realized from ve samples of fermente butter obtained with di erent preparation methods and the storage times (years): 1 (E1), 3 (E2), 23 (E3), 5 (E4) ar 10 (E5). Samples were collected from di erent areas of Algeria (El-Oued, Sétif, Jijel and Béjaïa). To obtain a diver of lipolytic ora, we have used several culture media (Ordinary Nutrient Agar, Man Rogosa Sharp agar, Terzaghi ac Sabouraud Dextrose agar). ese entire mediums are added with olive oil and / or Tween 80 to make them selective. incubation was carried out at 37 °C for 5 days. e strains obtained are classi ed with her potential activity. Titration is the method used to estimate of the free fatty acids or lipase activity. 95 strains were selected for their lipolytic activity classi ed as bacteria. 29 strains producing lipases: were preselected for their ability to develop a high lysis height or agar medium. ey are Gram+, catalase +, immobile and unpopulated and cocci (04), rods (04) and lamentous (21). is shows that di erent preparation methods and storage times of these ve products have e ects on their microbial count A er a hierarchical ascending classi cation, six strains (SG5, BG14, SG9, SG26, SG25, and SS46) were screened fo ability to produce high levels of extracellular lipases independently on the nature of the lipid substrate in the medium.

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