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**(71) Applicant(s):**

LABORATOIRES MAUVES INC. [CA/CA]; 164, Rue Aimé-vincent Vaudreuil, Québec J7V 5V5 (CA) *(for all designated states except US)*

LE, Tien Canh [CA/CA]; 2820, Chemin De Bedford Montréal, Québec H3S 1G1 (CA) *(for US only)*

DUPUIS, Catherine [CA/CA]; 3175, Rue Jean-brillant Montréal, Québec H3T 1N7 (CA) *(for US only)*

SCHLEGEL, Claudia [CA/CA]; 187, Boul. de L'Industrie Candiac, Québec J5R 1J4 (CA) *(for US only)*

**(72) Inventor(s):**

LE, Tien Canh; 2820, Chemin De Bedford Montréal, Québec H3S 1G1 (CA)

DUPUIS, Catherine; 3175, Rue Jean-brillant Montréal, Québec H3T 1N7 (CA)

SCHLEGEL, Claudia; 187, Boul. de L'Industrie Candiac, Québec J5R 1J4 (CA)

**(74) Agent(s):**

BERESKIN & PARR; 40 King Street West 40th Floor Toronto, Ontario M5H 3Y2 (CA)

**(54) Title (EN):** GASTRIC ACID RESISTANT GELATIN CAPSULE COMPOSITION AND METHOD FOR PRODUCING SAME

**(54) Title (FR):** COMPOSITION POUR CAPSULES DE GÉLATINE RÉSISTANTES À L'ACIDE GASTRIQUE ET PROCÉDÉ DE PRODUCTION ASSOCIÉ

**(57) Abstract:**

**(EN):** The present invention is to provide a process for preparing gastric acid resistant gelatin capsules. The process consists to add functional groups (i.e. carboxyl and/or acyl) in the gelatin backbone in order to confer to the gelatin a buffer capacity and a resistance in the gastric acid. Furthermore, the addition of polysaccharide (i.e. alginate) and fatty acid in the formulation is necessary to delay the disintegration of gelatin shell protecting thus the bioactive agents during gastric transit and deliver the bioactive agents at the absorption site in intestine.

**(FR):** La présente invention a trait à un procédé permettant de préparer des capsules de gélatine résistantes à l'acide gastrique. Le procédé selon l'invention consiste à ajouter des groupes fonctionnels (à savoir carboxyle et acyle) dans le squelette de la gélatine, afin de doter la gélatine d'un pouvoir tampon et de la rendre résistante dans l'acide gastrique. En outre, il est nécessaire d'ajouter un polysaccharide (à savoir alginate) et des acides gras dans la préparation pour retarder la désagrégation de l'enrobage de gélatine, ce qui permet de protéger les agents bioactifs pendant le transit gastrique et d'acheminer les agents bioactifs jusqu'au site d'absorption dans l'intestin.

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