INDEPENDENT CLAIMS:

1) A solid immunotherapeutic lozenge dosage form of interferon for human use, said dosage form comprising about 1 to about 1500 IU of alpha-interferon and a saliva soluble pharmaceutically acceptable carrier selected so that said lozenge dosage form dissolves completely during contact with saliva in the mouth to provide the interferon in saliva solution and to deliver interferon through the oral and pharyngeal mucosa.

2) A method of preparing a dosage form of interferon for use by human patients to stimulate a systemic immunotherapeutic response, said method comprising the step of combing interferon and a pharmaceutically acceptable, solid carrier to form a mixture, and forming said mixture into a lozenge containing about 1 to about 1500 IU of alpha-interferon per lozenge, said lozenge characterized by its complete dissolution in saliva in a patient's mouth to form a saliva solution of the carrier and the interferon and to deliver interferon through the patient's oral and pharyngeal mucosa.

3) A solid immunotherapeutic dosage form of interferon for delivery of interferon to the lymphatic system of a patient to stimulate a systemic immunotherapeutic response, said dosage form comprising alpha-interferon and a solid carrier, said solid immunotherapeutic dosage form characterized by its complete dissolution during contact with saliva to provide a saliva solution of the carrier and the interferon in the mouth and to deliver the interferon through the oral and pharyngeal mucosa and into the patient's lymphatic system.