Therefore, an object is to provide an oral form which allows improvement of the bioavailability and reproducibility of the therapeutic effect for the active ingredients having a narrow absorption window or being absorbed high in the digestive tract.

Another object of the invention is the provision of a floating multi-particulate form with prolonged release which is particularly advantageous in the reduction of the variability and therefore the reproducibility and which allows avoidance of the disadvantages observed with the monolithic forms such as capsules or tablets.

Another object of the present invention is to provide a floating multi-particulate form which preserves the wall of the stomach and reduces the risks of local intolerance.

Another object of the invention is the provision of a granule intended to float at the surface of the stomach liquid, having a diameter of less than 3 mm, presenting a core-shell type consisting of:

- a solid core,
- an internal layer surrounding said core, said layer comprising a mixture formed with i) the active ingredient, the absorption site of which is located very high in the digestive tract, said active ingredient being selected from the group formed by furosemide, tiapride, alfuzosin, captopril, GHB, metformin, nifedipine, buprznorphine, modafinil, methadone, nalbuphine, tetrahydrocannabinol, and ii) an alkaline agent generating a release of gas in the presence of said stomach liquid, an intermediate layer being provided, separating said alkaline agent and said active ingredient when the latter is an acid compound,

- an external coating layer,

wherein the alkaline agent which may constitute the solid core is selected from the group consisting of carbonates and bicarbonates.

Another object of the invention is the provision of a method for preparing a granule as defined herein where the alkaline agent does not constitute the solid core, wherein it comprises a step of application, by powdering the active ingredient, to the solid core and a step of adding the alkaline agent.

Another object of the invention is the provision of a method for preparing a granule as defined herein where the alkaline agent constitutes the solid core, wherein it comprises a step of application, by powdering the active ingredient, to the alkaline agent constituting the solid core, on which the active ingredient is supported.

Another object of the invention is the provision of a granule prepared by the process as defined herein.

Therefore, the present invention involves the provision of a specifically developed composition to obtain a medication form which has a sufficient content of active ingredient, whilst maintaining a sufficiently small size in order to obtain satisfactory buoyancy, and most particularly for active principles with a high absorption in the digestive tract.

Therefore, the present invention relates to floating granules which comprise a solid core, on which an active ingredient is supported, the granules being characterised in that they also comprise a compound which is capable of generating a gas discharge which is constituted by an alkaline agent and does not comprise any acid agent.