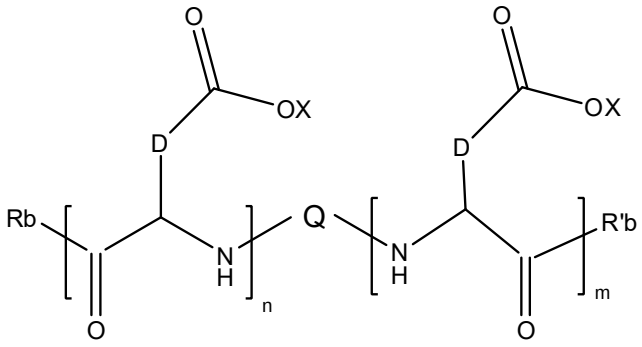
ABSTRACT

INJECTABLE SOLUTION WITH A PH ~~7~~ OF 7 COMPRISING AT LEAST ONE BASAL INSULIN WITH A PI OF BETWEEN 5.8 AND 8.5 AND A CO-POLYAMINO-ACID BEARING CARBOXYLATE CHARGES AND HYDROPHOBIC RADICALS

[0001] In one embodiment, the composition according to the invention is characterized in that the co-polyamino acid bearing carboxylate charges and at least one hydrophobic radical -Hy is chosen among the co-polyamino acids according to formula XXXb hereinafter:



formula XXXb

wherein,

- D represents, independently, either a group -CH_2- (aspartic acid) or a group -CH_2-CH_2- (glutamic acid),
- X represents a cationic entity chosen in the group comprising alkali cations,
- R_b and R_b', identical or different, are either a hydrophobic radical -Hy, or a radical chosen in the group consisting of an H, a C2 to C10 linear acyl group, a C3 to C10 branched acyl group, a benzyl, a terminal "amino acid" unit and a pyroglutamate,

at least one of Rb and R'b is a hydrophobic radical -Hy,

- Q and Hy are as defined above.
- n + m represents the degree of polymerization DP of the co-polyamino acid, namely the mean number of monomeric units per co-polyamino acid chain and $5 \leq n + m \leq 250$.

[No Figure]