

Title (en)

HIGHLY BRANCHED, UNSUBSTITUTED OR LOW-SUBSTITUTED STARCH PRODUCTS, DIALYSIS SOLUTION AND PLASMA EXPANDER CONTAINING THE SAME, AND THE USE THEREOF

Title (de)

HOCHVERZWEIGTE, NICHT ODER NIEDRIG SUBSTITUIERTE STÄRKEPRODUKTE, DIALYSELÖSUNG UND PLASMAEXPANDER ENTHALTEND DIESE UND DEREN VERWENDUNG

Title (fr)

PRODUITS D'AMIDON HAUTEMENT RAMIFIES, NON OU FAIBLEMENT SUBSTITUES, SOLUTION DE DIALYSE ET SUBSTITUT DU PLASMA CONTENANT LESDITS PRODUITS ET LEUR UTILISATION

Publication

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Application

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Abstract (en)

[origin: WO2004022602A1] Known hydroxyethylated or hydroxypropylated types of starch for use as a colloid osmotic agent in peritoneal dialysis or as a volume substitute (plasma expander) are disadvantageous in that a complete break-down by amylase is not possible by the more or less intense substitution by hydroxyethyl groups or hydroxypropyl groups. As a consequence, residual fragments remain behind in the organism that are eliminated only very slowly or are stored in diverse organs/tissues, particularly when administered in a high and/or long-term dose. According to the invention, these disadvantageous properties can be avoided to the greatest possible extent by using a highly branched, unsubstituted or low-substituted starch product, i.e. using a starch having a significantly higher degree of branching than amylopectin or having the alpha -1,6 degree of branching of glycogen or even exceeding this and, if substituted, having a degree of substitution MS of no greater than 0.3.

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