ABSTRACT

NUCLEOTIDE ANALOG COMPOSITION AND SYNTHESIS METHOD

A method for the manufacture of the bisester or diacid of PMPA comprises contacting lithium alkoxide with 9-(2-hydroxypropyl)adenine in order to produce the lithium salt of 9-(2-hydroxypropyl)adenine, and optionally reacting the lithium salt with diethyl *p*-toluenesulfonyloxymethylphosphonate to produce 9-[2-(diethylphosphonomethoxy)propyl]adenine, which in turn is optionally hydrolysed to produce the diacid. The use of lithium alkoxide reduces labor and care in the synthesis, reduces amounts of starting materials and reduces overalkylation of the product. Intermediate compositions are provided that contain lithium alkoxide and 9-(2-hydroxypropyl)adenine.

[No figure]