



## Dialdehyde Starch-Lysine Conjugates: Chemical, Structural and Functional Properties

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### ABSTRACT

We produced a novel starch derivative in two steps: periodate oxidation to obtain dialdehyde starch (DAS) and conjugation of DAS with lysine in a Maillard-type reaction. Compared to the native tapioca starch, DAS has significantly lower intrinsic viscosity, molecular weight, relative crystallinity, smoothness of granule surface, and swelling power, but higher solubility and light transmittance. When produced using increasing periodate concentrations from 0.05 to 3.0 N, DAS had higher carbonyl contents and swelling powers but lower recovery efficiency, intrinsic viscosity, relative crystallinity, and solubility. When produced from DAS with higher carbonyl contents, the DAS-lysine conjugates had higher degree of lysine conjugation and swelling power but lower intrinsic viscosity, relative crystallinity, granule integrity and paste transparency. This approach of conjugation can be used in slow-release applications, where different amino acids, peptides, or even proteins can be conjugated with DAS, and then cleaved and released in the stomach or other acidic media.

**Keywords:** Dialdehyde starch, Amino acid conjugation, Periodate.

### INTRODUCTION

In industrial applications, native starch exhibits many disadvantages in terms of technological properties. Therefore, food scientists and technologists have modified starches to change and improve their technological, physicochemical, chemical and digestive properties. There are three groups of starch modification techniques including chemical, physical and enzymatic treatments. At present, chemical modification is the most widely applied group of techniques. Chemical modification methods include oxidation, cross-linking,

esterification, etherification and cationization<sup>1</sup>.

Many oxidizing agents have been used for starch oxidation, such as  $\text{ClO}_2^-$ ,  $\text{ClO}^-$ ,  $\text{H}_2\text{O}_2$ ,  $\text{O}_3^{2-}$ ,  $\text{IO}_4^-$ ,  $\text{MnO}_4^-$ ,  $\text{Cr}_2\text{O}_7^{2-}$ ,  $\text{S}_2\text{O}_8^{2-}$  and  $\text{O}_3^{2-}$ . In an acidic medium, periodate ( $\text{IO}_4^-$ ) selectively oxidized and split the C-2 and C-3 bonds of the glucose units of starch with the formation of carbonyl (aldehyde) groups at those sites<sup>2</sup>. In an alkaline medium, periodate oxidizes starch to form carboxyl groups with three mechanisms: (1) Cannizzaro reaction converting two aldehyde groups to a hydroxyl group and a carboxyl group, (2) a series of reactions begun



# Dialdehyde Starch Analytical Report

**Sabine Zange**



## **Dialdehyde Starch Analytical Report:**

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