

Accepted Manuscript

Title: Total starch in animal feeds and silages based on the chromatographic determination of glucose

Authors: Marcela María Salazar Murillo, Fabio Granados-Chinchilla



PII: S2215-0161(18)30019-0
DOI: <https://doi.org/10.1016/j.mex.2018.01.009>
Reference: MEX 255

To appear in:

Received date: 13-6-2017
Accepted date: 19-1-2018

Please cite this article as: Murillo, Marcela María Salazar, Granados-Chinchilla, Fabio, Total starch in animal feeds and silages based on the chromatographic determination of glucose. *MethodsX* <https://doi.org/10.1016/j.mex.2018.01.009>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Total starch in animal feeds and silages based on the chromatographic determination of glucose.

Marcela María Salazar Murillo^a, Fabio Granados-Chinchilla^b

^a*Sede de Occidente, Universidad de Costa Rica, Recinto de Grecia, Tareas, 118, 20305, Alajuela, Grecia, Costa Rica*

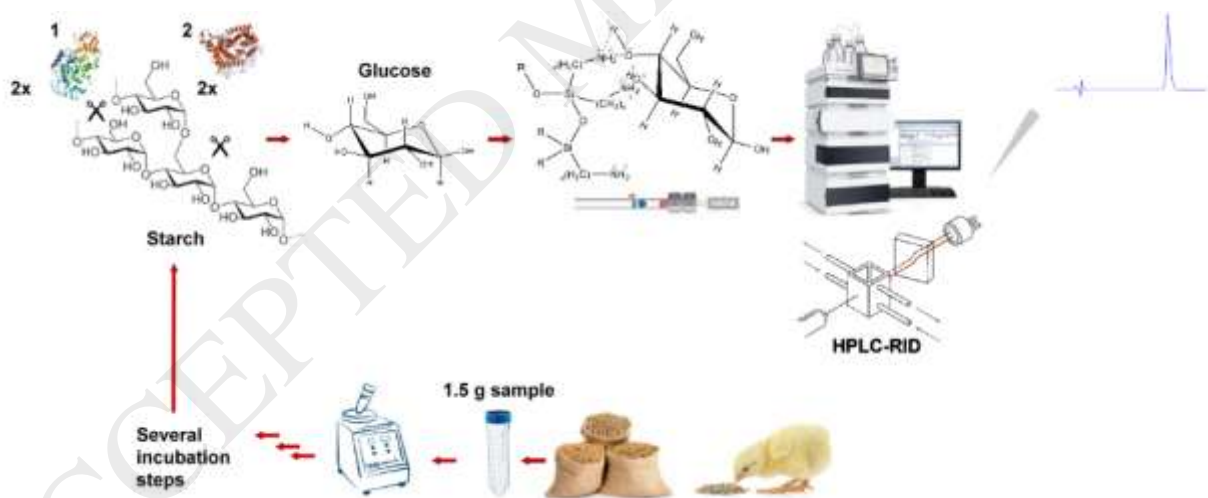
^b*Centro de Investigación en Nutrición Animal (CINA), Universidad de Costa Rica, 11501-2060 Ciudad Universitaria Rodrigo Facio San José, Costa Rica.*

Corresponding author: Fabio Granados-Chinchilla, Centro de Investigación en Nutrición Animal (CINA), Universidad de Costa Rica, 11501-2060 Ciudad Universitaria Rodrigo Facio, San José, Costa Rica; Tel: +506 2511 2028 Fax: +506 2234 2415. Email: fabio.granados@ucr.ac.cr

Method name: Starch in animal feed and silage

Keywords: starch, glucose, enzymatic hydrolysis, liquid chromatography, refractive index detector, feed, silage

Graphical abstract



Abstract

Starch is an important nutrient in animal feed, and so its analysis. Method AOAC 996.11 was modified to exchange the enzymometric and colorimetric step full approach to a simpler HPLC amine-based column one. The method was optimized and validated for its application in animal feeds and silages.

Download English Version:

<https://daneshyari.com/en/article/8389714>

Download Persian Version:

<https://daneshyari.com/article/8389714>

[Daneshyari.com](https://daneshyari.com)