## Accepted Manuscript

Process conditions influencing wheat gluten polymerization during high moisture extrusion of meat analog products

Valerie L. Pietsch, M.Azad Emin, Heike P. Schuchmann

PII:	S0260-8774(16)30388-0
DOI:	10.1016/j.jfoodeng.2016.10.027
Reference:	JFOE 8704
To appear in:	Journal of Food Engineering
Received Date:	20 July 2016

Revised Date: 08 September 2016

Accepted Date: 29 October 2016

Please cite this article as: Valerie L. Pietsch, M.Azad Emin, Heike P. Schuchmann, Process conditions influencing wheat gluten polymerization during high moisture extrusion of meat analog products, *Journal of Food Engineering* (2016), doi: 10.1016/j.jfoodeng.2016.10.027

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.



## Highlights:

- <u>Differences in product appearance were related to wheat gluten polymerization.</u>
- Wheat gluten polymerization only took place in the screw section of the extruder.
- Thermal treatment was the major parameter influencing wheat gluten polymerization.
- In the range investigated, SME and pressure had no influence on wheat gluten polymerization.
- Determining polymerization behavior at high moisture extrusion conditions will enable a more targeted design of the extrusion process for the production of meat analog products.

Download English Version:

https://daneshyari.com/en/article/4909176

Download Persian Version:

https://daneshyari.com/article/4909176

Daneshyari.com