

Accepted Manuscript

Tyramine and histamine risk assessment related to consumption of dry fermented sausages by the Spanish population

M.L. Latorre-Moratalla, O. Comas-Basté, S. Bover-Cid, M.C. Vidal-Carou



PII: S0278-6915(16)30418-5

DOI: [10.1016/j.fct.2016.11.011](https://doi.org/10.1016/j.fct.2016.11.011)

Reference: FCT 8783

To appear in: *Food and Chemical Toxicology*

Received Date: 2 September 2016

Revised Date: 10 November 2016

Accepted Date: 12 November 2016

Please cite this article as: Latorre-Moratalla, M.L., Comas-Basté, O., Bover-Cid, S., Vidal-Carou, M.C., Tyramine and histamine risk assessment related to consumption of dry fermented sausages by the Spanish population, *Food and Chemical Toxicology* (2016), doi: 10.1016/j.fct.2016.11.011.

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.

TYRAMINE AND HISTAMINE RISK ASSESSMENT RELATED TO CONSUMPTION OF DRY FERMENTED SAUSAGES BY THE SPANISH POPULATION.

Latorre-Moratalla, M.L.^a; Comas-Basté, O.^a; Bover-Cid, S.^b; Vidal-Carou, M.C.^{a*}

^aDepartment of Nutrition, Food Sciences and Gastronomy - XaRTA - INSA, School of Pharmacy and Food Sciences, University of Barcelona. Avinguda Prat de la Riba, 171; E-08921 Santa Coloma de Gramenet, Spain.

^bIRTA-Food Safety Programme, Institute for Food and Agricultural Research and Technology, Finca Camps i Armet s/n, E-17121 Monells, Spain.

Abstract

Tyramine and histamine are the main dietary bioactive amines related to acute adverse health effects. Dry fermented sausages can easily accumulate high levels of these hazards and are frequently consumed in Spain. The present work aims to assess the exposure to tyramine and histamine from the consumption of dry fermented sausages by the Spanish population and to assess the risk to suffer acute health effects from this exposure. A probabilistic estimation of the exposure to these hazards was derived combining probability distributions of these amines in dry fermented sausages (n=474) and their consumption by the Spanish population. The mean dietary exposure to tyramine and histamine was 6.2 and 1.39 mg/meal, respectively. The risk of suffering hypertensive crisis or histamine intoxication by healthy population due to tyramine or

Download English Version:

<https://daneshyari.com/en/article/5560330>

Download Persian Version:

<https://daneshyari.com/article/5560330>

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