
# APPLICATION NOTE
# E181VPH-002

## Quantification of Amino Acids in Fermented Sausages

***Abstract***

The cited article investigates differences in the concentrations of free amino acids in fermented sausages produced from non sulfur-fed pork and sulfur-fed pork.

***Keywords***

- Food analysis
- amino acids
- amino sulfonic acids

### *Compound information*

| Classification | Compound name |
|---|---|
| Amino acids | Alanine, Arginine, Asparagine, Aspartic acid, GABA (γ-Aminobutyric acid), Glutamic acid, Glutamine, Glycine, Histidine, Isoleucine, Leucine, Lysine, Methionine, Phenylalanine, Proline, Serine, Threonine, Tryptophane, Tyrosine, Valine |
| Amino sulfonic acids | Taurine |

### *Chromatographic conditions*

| | |
|---|---|
| Column<br>Particle Size, Length × inner diameter<br>Order number | VDSpher® PUR 100 C18-E<br>3.5 µm, 150 × 4.6mm<br>N1546E181VPH |
| Separation mode descriptions | analytical, reversed phase |
| Mobile Phase | A: 40 mM $Na_2HPO_3$ aqueous solution, pH = 7<br>B: $H_2O/CH_3CN/CH_3OH$, 10:45:45 vol% |
| Elution conditions | |
| Flow rate | |
| Injection | |
| Column temperature | |
| HPLC system | Dionex Ultimate 3000 |
| Sample and sample preparation | Sample were extracted by ultrasonification for one hour using 75% ethanol and stored at room temperature for 24 hours. Filtration with a 0.2µm filter preceded HPLC analysis. |

The author of the application refers to a published method for the analysis [1].

### *Chromatograms*

Not available

### *Origin*

Chi-Ho Lee
Konkuk University, Seoul 05029, Korea
Department of Food Science and Biotechnology of Animal Resources

***References***

"Changes of Physicochemical and Sensory Properties of Fermented Sausage from Sulfur-fed Pork"
Min-Gu Ju, Ji-Han Kim, Hyun-Joo Jang, Su-Jung Yeon, Go-En Hong, Woojoon Park, Han Geuk Seo, Chi-Ho Lee
*Korean J. Food Sci. Anim. Resour.* **2016**, *36*(6), 729-736.

[1] "Rapid, Accurate, Sensitive, and Reproducible HPLC Analysis of Amino Acids"
John W. Henderson, Robert D. Ricker, Brian A. Bidlingmeyer, Cliff Woodward
*Agilent Publication*

Year of application: 2016



For more information about VDSpher® columns visit our website or contact us via Email:
www.vdsoptilab.de
info@vdsoptilab.de

VDS optilab