

PRODUCT DATA SHEET

KEL-FIM-FAME-5 Mixture (quantitative)

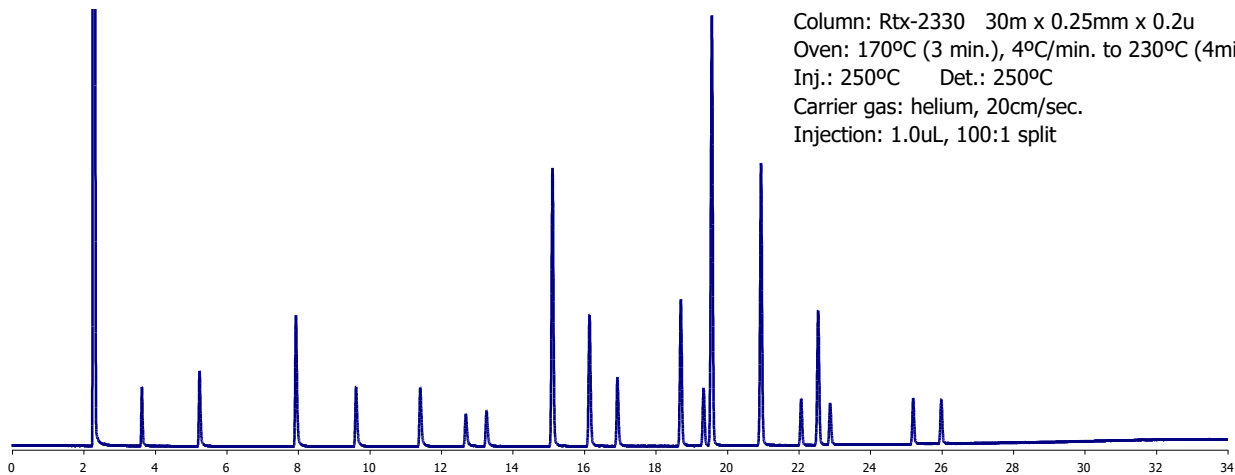
Catalog No: 4210

Storage: -20°C

Concentration: Various

Quantity: 1ml

| Carbon Number | Component Name | mg/ml |
|---------------|--|-------|
| C8:0 | Methyl octanoate (caprylate) | 0.3 |
| C10:0 | Methyl decanoate (caprate) | 0.5 |
| C12:0 | Methyl dodecanoate (laurate) | 1.0 |
| C13:0 | Methyl tridecanoate | 0.5 |
| C14:0 | Methyl tetradecanoate (myristate) | 0.5 |
| C14:1 | Methyl tetradecenoate (<i>cis</i> -9), (myristoleate) | 0.3 |
| C15:0 | Methyl pentadecanoate | 0.3 |
| C16:0 | Methyl hexadecanoate (palmitate) | 2.0 |
| C16:1 | Methyl hexadecenoate (<i>cis</i> -9), (palmitoleate) | 1.0 |
| C17:0 | Methyl heptadecanoate (margarate) | 0.5 |
| C18:0 | Methyl octadecanoate (stearate) | 1.0 |
| C18:1 | Methyl octadecenoate (<i>trans</i> -9), (elaidate) | 0.4 |
| C18:1 | Methyl octadecenoate (<i>cis</i> -9), (oleate) | 3.0 |
| C18:2 | Methyl octadecadienoate (all <i>cis</i> -9,12), (linoleate) | 2.0 |
| C20:0 | Methyl eicosanoate (arachidate) | 0.3 |
| C18:3 | Methyl octadecatrienoate (all <i>cis</i> -9,12,15), (linolenate) | 1.0 |
| C20:1 | Methyl eicosenoate (<i>cis</i> -11), (gondoate) | 0.3 |
| C22:0 | Methyl docosanoate (behenate) | 0.3 |
| C22:1 | Methyl docosenoate (<i>cis</i> -13), (erucate) | 0.3 |



Application Notes:

This fatty acid methyl ester mixture contains 19 fatty acids for the identification and quantification of unknowns.¹ It is prepared from high purity stock material and contains saturated and unsaturated fatty acids. This mixture is very useful for bacterial identification,² triglyceride determination and the analysis of various plant and animal lipids.³ Understanding the role of fatty acids and fatty acid metabolism in plants and animals is important in drug development.

Selected References:

1. T. Murata "Analysis of fatty acid methyl esters by a gas-liquid chromatography-chemical ionization mass spectrometry computer system" *Journal of Lipid Research*, Vol. 19:166, 1978
2. N. Rozès et al. "A rapid method for the determination of bacterial fatty acid composition" *Applied Microbiology*, Vol. 3:17 pp.126, 1993
3. D. Welch "Applications of cellular fatty acid analysis" *Clinical Microbiology Reviews*, Vol. 4:4 pp. 422, 1991

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