

**SYNTHESIS AND CHARACTERIZATION OF [1-<sup>13</sup>C]- AND D<sub>8</sub>-ARACHIDONIC ACID.** Un Hoi Do, M.G. Sundaram, S. Ramachandran, and R.W. Bryant (Applied Science Division, Milton Roy Company, State College, Pennsylvania 16801) *Lipids* 14(9), 819-21 (1979). Methyl d<sub>8</sub>- and [1-<sup>13</sup>C] 5,8,11,14-eicosatetraenoate (arachidonate) were prepared from a common synthetic precursor, 4,7,10,13-nonadecatetraen-1-ol. The purified products were characterized by gas chromatography-mass spectrometry. Mass spectra of *t*-butyldimethylsilyl esters of d<sub>8</sub>- and [1-<sup>13</sup>C]-arachidonic acid showed a most intense [M-57]<sup>+</sup> peak at high mass. The isotopic purity of methyl [1-<sup>13</sup>C] arachidonate was 99% and that of methyl d<sub>8</sub>-arachidonate was 56%. When d<sub>8</sub>-arachidonic acid was prepared by direct deuteration of 5,8,11,14-eicosatetraenoic acid, the isotopic purity of the sample was 86%.

**QUANTITATIVE ANALYSIS OF MONOSIALOGLANGLIOSIDES BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY OF THEIR PERBENZOYL DERIVATIVES.** E.G. Bremer, S.K. Gross and R.H. McCluer (Eunice Kennedy Shriver Center, Waltham MA 92154) *J. Lipid Res.* 20(8), 1028-35 (1979). A quantitative high-performance liquid chromatographic method for the analysis of monosialogangliosides as their perbenzoyl derivatives has been devised. To take advantage of the high sensitivity of the HPLC, a small-scale isolation method for gangliosides was devised. This method coupled with HPLC isotope dilution analysis was used to analyze the G<sub>M3</sub> content of 1 ml of human plasma.

## Drying oils and paints

**COATINGS BASED ON FATTY ACID MODIFIED CELLULOSE PHTHALATE RESINS.** B.P. Singh, S. Chandra and A.K. Vasishtha (Department of Oil and Paint Technology, Harcourt Butler Technological Institute, Kanpur 208002, India) *J. Oil Colour Chem. Assoc.* 62, 470-4 (1979). Cellulose mixed esters of phthalic acid and long chain fatty acids were prepared and their film properties were studied and compared with those of corresponding alkyds. The fatty acid modified cellulose phthalate coatings exhibited excellent physical, chemical and mechanical properties and were found to be superior to the corresponding alkyds.

### PUBLICATIONS ABSTRACTED

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