Anti Oxidants for long term storage

* BHT @ 10μg/mL
  + For long period of storage, it can be useful to flush vials or tubes with nitrogen before closing to prevent fatty acid oxidation. For the same purpose, a low amount of antioxidant such as BHT (butylated hydroxytoluene or 2,6-di-tert-butyl-4-methoxyphenol) or ethyl gallate (i.e. about 50 µg BHT/ml) may be added in the solvent if the natural antioxidant amount is estimated too low (purified extracts). The antioxidant is used as a concentrated solution in ethanol (10 mg/ml).
    - <http://www.cyberlipid.org/extract/extr0001.htm>

Solvent and concentrations to use for neutral lipids

* Hexanes
  + Among hydrocarbons, **hexane** is the most popular but is a good solvent only for lipids of low polarity. Its main use is to extract neutral lipids from mixtures of water with alcohols. A mixture of isomers, called "hexanes", can be used for the same purpose. Hexane can be replaced by petroleum ether which is a mixtures of various hydrocarbons with 5 to 8 carbon atoms.
    - <http://www.cyberlipid.org/extract/extr0001.htm#5>
* 0.02μgmL to 100.0μg/mL for calibration curve standards
  + For each level of calibration, all FAME were present at equal concentrations ranging from 0.02 to 100.0 µg/mL across the series. As an internal standard, 21:0 FAME was added to each mixture at a concentration of 50.0 µg/mL. All standards were analyzed in quadruplicate by GC–FID and each of the GC–MS methods.
    - QUANTIFICATION OF FAME: GC–FID VS. GC–MS Lipids, Vol. 40, no. 4 (2005)

Solvent for lipid standards

* Lipids are aliquoted into 100ug/ml portions into hexane following the same procedure as Sigma Aldrich and how they store their FAME derivatives for shipping
  + <http://www.sigmaaldrich.com/catalog/product/supelco/49453u?lang=en&region=US>

Insect homogenate

* Stabilizers
* Sample number in pool
* Life stage to sample the insects