



A number of synthetic antioxidants are approved for the prevention of rancidity in edible oils. AOAC 983.15 is a standard assay for these compounds:

Propyl gallate

Trihydroxybutyrophenone (THBP)

t-Butylhydroquinone (TBHQ)

Nordehydroguiaretic acid (NDGA)br> Butlyated hydroxyanisole (BHA)

Ionox-100

Octyl gallate

Butylated hydroxytoluene (BHT)

Dodecyl gallate

Here the mobile phase has been modified slightly to make it more compatible with spectrum collection using the diode array detector. This allows the confirmation of the antioxidant peaks even in this highly complex chromatogram of wheat-germ oil.