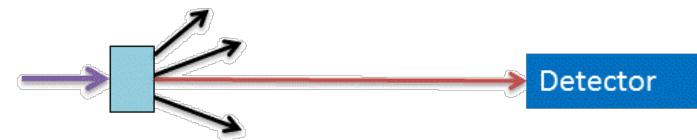


Evaluation of optical properties of low UVT fluids

1-cm path length cuvettes -
diluted solutions to determine **absorptivity**
coefficient or molar absorptivity



A vs c

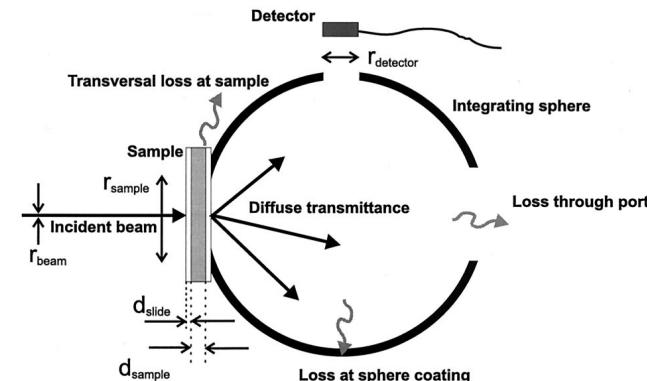
$$A = \varepsilon cb$$

0.05 – 1-mm path length quartz cuvettes -
absorption coefficient including absorbance and
scattering

A vs b

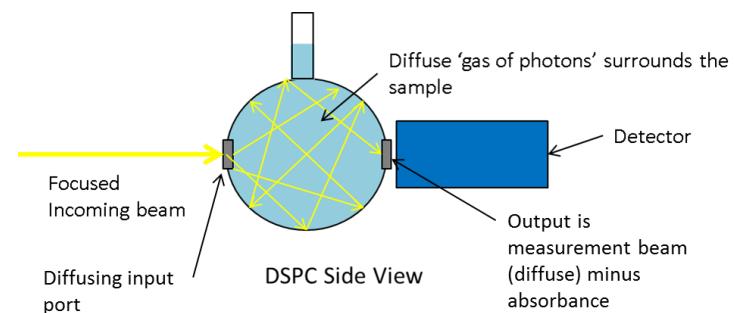
$$A = (\varepsilon b)xc$$

Integrated sphere (IS) - **diffuse transmittance**
excluding back scattered light

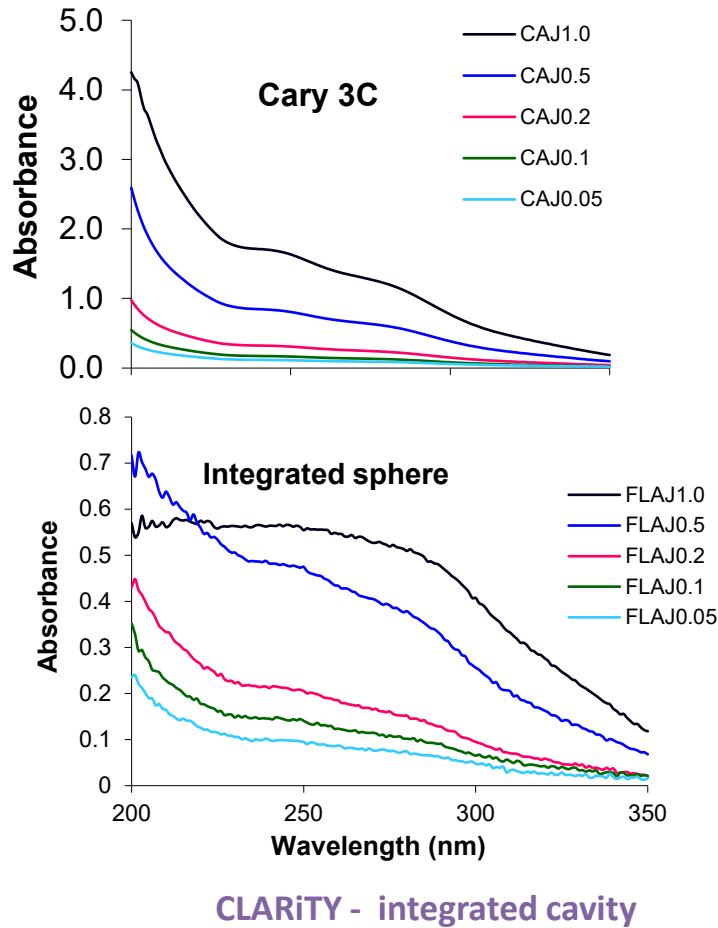


$$A = (\varepsilon c)xb$$

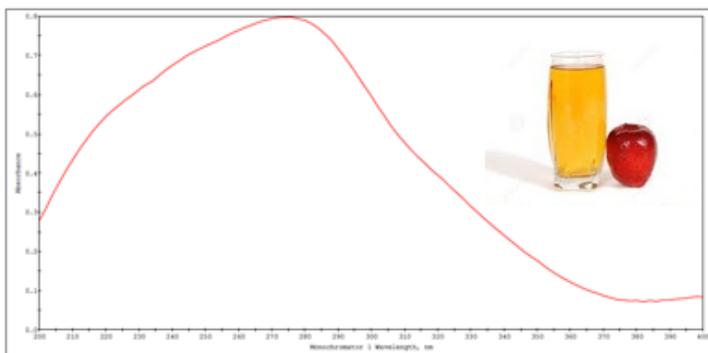
CLARiTY - integrated cavity
Absorbance corrected per cm excluding scattering



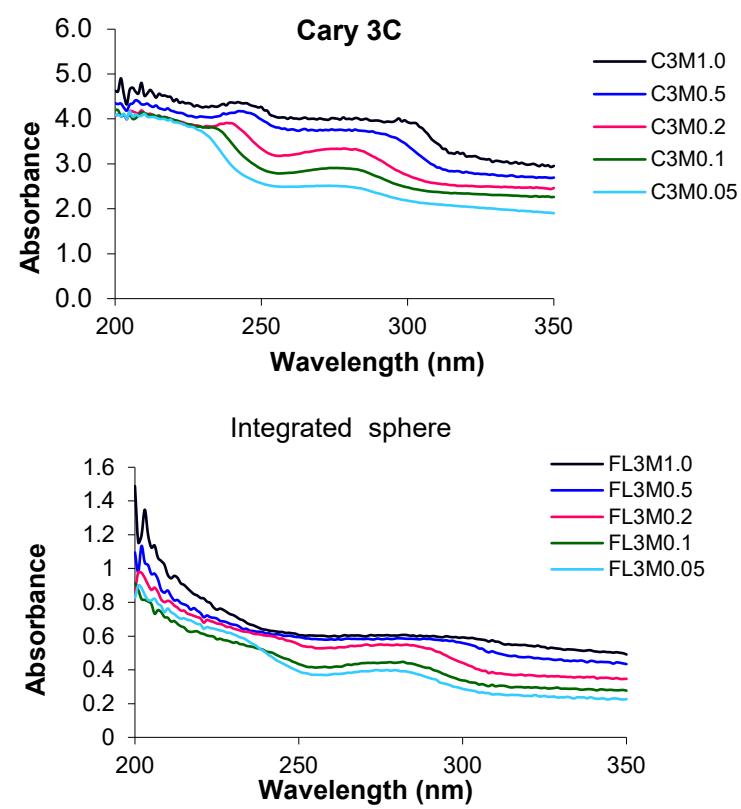
Clear Apple juice



CLARiTY - integrated cavity



Whole milk 3.25 % fat



CLARiTY - integrated cavity

