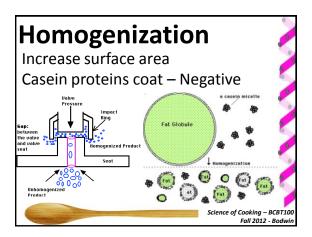




Sphere Math Volume = $\frac{4}{3}\pi r^3$ Surface area = $4\pi r^2$ 1 sphere, 2cm radius Volume = $\frac{4}{3}\pi (2cm)^3 = 34cm^3$ Surface = $4\pi (2cm)^2 = 50.cm^2$ Break into 2 spheres: Volume of each = $17cm^3 = \frac{4}{3}\pi (x)^3 \rightarrow x = 1.6cm$ Surface of each = $4\pi (1.6cm)^2 = 32cm^2$ Total surface = $64cm^2 \rightarrow too$ much! Science of Cooking - BCBTIOL Foll 2012 - Bodwing



Pasteurization

Hot enough to sterilize, not cook "Regular" = 145°F, 30 minutes HTST = 162°F, 15 seconds UHT = 265°F, 1-3 seconds

Cooked flavor due to sulfur cmpds

Science of Cooking – BCBT100 Fall 2012 - Bodwin