



Analytical Report

lactium[®] solubility vs pH



TRIALS AIM :

to measure the influence of pH on the solubility of lactium® in water.

Products :

Mixing of 3% lactium® (w/w) in distilled water

Analytical method :

ADMI insolubility method (international dairy standard)



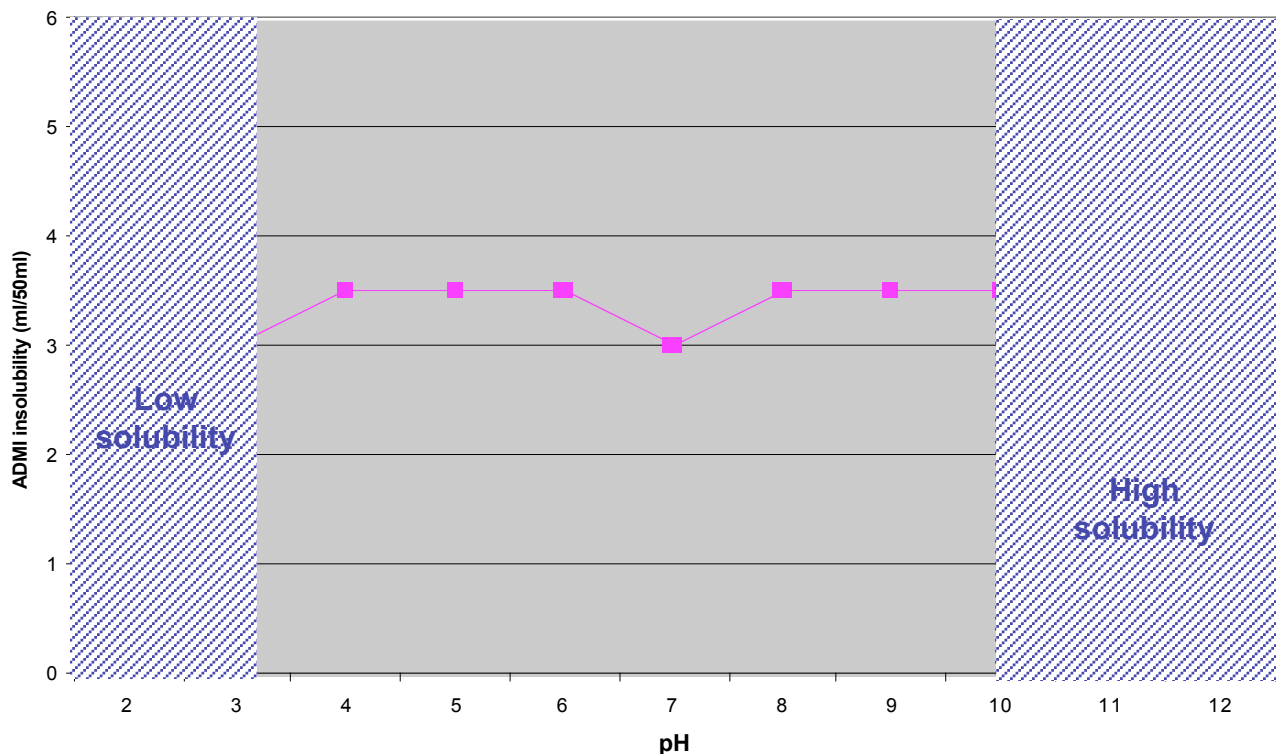
lactium[®] solubility vs pH

Results :

lactium[®] solubility vs pH

The solubility of lactium[®] has been measured with an ADMI method and visually observed.

Fig. 1 - Evolution of the ADMI insolubility of lactium at different pH



- lactium[®] is highly soluble at pH higher than 10 and becomes less soluble at pH lower than 3,
- From pH 3 to 9, lactium[®] has stable soluble properties,
- Sediments and flakes can be observed at very acidic pH.



GENERAL CONCLUSIONS :

- ✓ lactium® shows good solubility in a wide range of pH :
3 to 12
- ✓ the higher the pH, the higher the solubility of lactium®
- ✓ lactium® solubility decreases for pH lower than 3.
These severe pH conditions are rarely used in
food processes.