



Vitamins are a vital component of the diet and are essential for the prevention of a number of chronic diseases. The Irish dairy industry is primarily a pasture based feeding system, which produces milk with varying vitamin levels. Consequently, vitamin levels in liquid milk and milk powders needs to be regularly measured to ensure that dairy ingredients meet the specifications of manufacturers. This comprehensive analysis is essential for the formulation of infant formula (IF) and follow-on formula (FOF) to ensure vitamin contents are within limits laid down by EU and International legislation. The project will establish validated methods for measuring water soluble (WSVs) and fat soluble vitamins (FSVs) in milk and IF. At present there are no analytical methods for measuring WSVs or FSVs in milk and IF by laboratories of Irish Research Performing Organisations (RPOs). This project aims to bridge the gap in the knowledge and produce reference methods that can determine all the significant FSV and WSV.

Project Duration: 36 months (18M University of Rome + 18M Teagasc)

Collaborating Institutions: Teagasc Ashtown Food Research Centre, Ireland
University of Rome, Italy
University College Cork, Ireland

Project Team:

<u>RL2025 Fellow</u>	<u>Teagasc Supervisor</u>	<u>Outgoing Phase Supervisor</u>	<u>Third Supervisor</u>
Dr George Hull	Dr Martin Danaher Teagasc Ireland	Dr Alessandra Gentilli University of Rome Italy	Dr Kevin Cashman University College Cork Ireland