

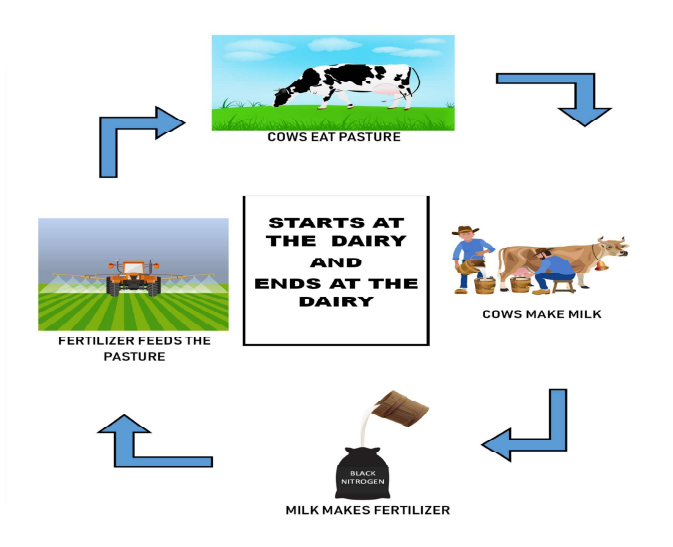


**STERLING  
AGRICULTURE**  
— FEED WHAT YOU NEED —

# WHY MILK?

MADE FROM 100% CERTIFIED ORGANIC MILK (Patent Pending)

STERLING USES ONLY 100% CERTIFIED ORGANIC DE-HYDRATED SKIM MILK



## KEY BENEFITS

- **Increases Protein and BRIX** content of crops
- Milk contains several antimicrobial activities including naturally occurring antimicrobial agents, for instance, **lactoferrin** and **lysozyme**, and other antimicrobial factors especially those produced as a result of microbial and probiotic activities. Lysozyme for example is a bacteriologic enzyme naturally present in milk.
- Lysozyme can also inhibit growth of Gram-positive spoilage organisms and pathogens, including **Listeria** and **Bacillus cereus**. It also inhibits plant pathogens and downy mildew on crops.
- The enzyme **lactoperoxidase**, naturally present in raw milk, adds thiocyanate and a source of peroxide. The effect is to block bacterial metabolism and inhibit pathogen growth.
- **Lactoferrin (Lf)** is a therapeutic alternative against pathogens since it is a safe nutraceutical protein commercially available from milk whey, no resistance to it has been found. and it does not affect the microbiota (**Good Bacteria**). Luna-Castro S, Samaniego-Barrón L, Serrano-Rubio LE, Ceballos-Olvera I, Avalos-Gómez C, et al. (2017) *Lactoferrin: A Powerful Antimicrobial Protein Present in Milk. J Adv Dairy Res 5: 195. DOI: 10.4172/2329-888X.1000195*

## RESEARCH DOCUMENTED

- Hussein Azzaz Murad studied continuous cultivation of microorganisms in the Institute of Microbiology, Prague, Czechoslovakia before obtaining his PhD from Zagazig University, Egypt in Food Microbiology. He is Professor of Food Microbiology, National Research Center, Egypt. He prepared and manage several training courses in food safety, HACCP, ISO 22000 and fermentations. He supervised several MSc and PhD studies in Food Microbiology. He is the reviewer/editor of five journals of Science Alert and has published over 50 papers in national and international journals and conferences.
- Dr. Murad is considered one of the top scientists in the world on the research of milk and anti-pathogen responses.

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