

مزارع العين



Al Ain Farms



Camel Milk

Technology challenges &
Potential for Growth

Sergei Kiselev

AGENDA

1

KEY FACTS

Key characteristics of camels & Al Ain Farms production capacity

2

NUTRITION FACTS

Comparing camel milk vs cow milk in terms of nutrition facts

3

HEALTH BENEFITS

Camel milk contains 2 times more proteins with “protective ” function

4

TECHNOLOGY CHALLENGES

Casein and Whey composition comparison vs cow milk

5

AL AIN FARMS RANGE & WAY FORWARD

Range composition and opportunities for further expansion



1

KEY FACTS

Common Name:
Arabian camels
(Dromedaries)

Scientific Name:

Camelus dromedarius
Domestication: 2000 BC
Mammals, Herbivore

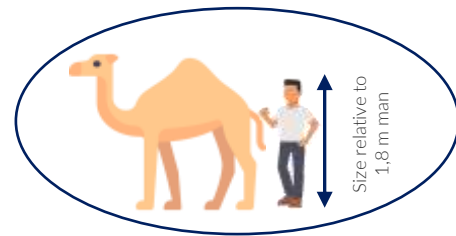
NAME & TYPE



Over 2,1m tall at the
hump

Up to 750 kg

SIZE & WEIGHT



Calving age: 4

Lactation: 14-16 months

Pregnancy: 390 days

Productivity: ~10 Lit\day

PRODUCTIVITY



Farming since 2001

3200 productive camels

2 MN Lt \ Year

AL AIN FARMS

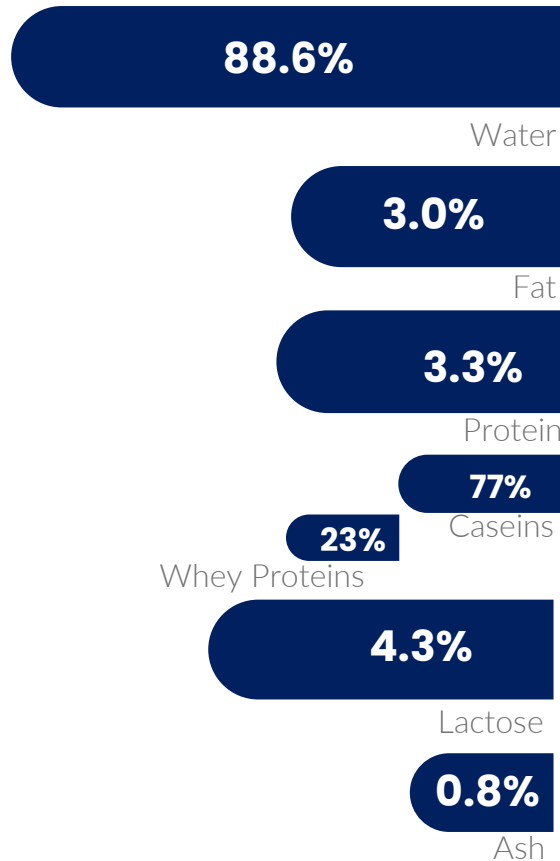


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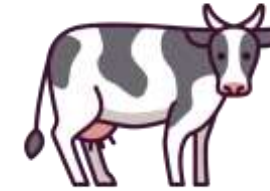
NUTRITION FACTS

- Camel milk has higher water content and ~10 % less content of key nutrients
- Casein\whey protein ratio is shifted towards whey protein
- Camel milk has higher ash content due to hot environment

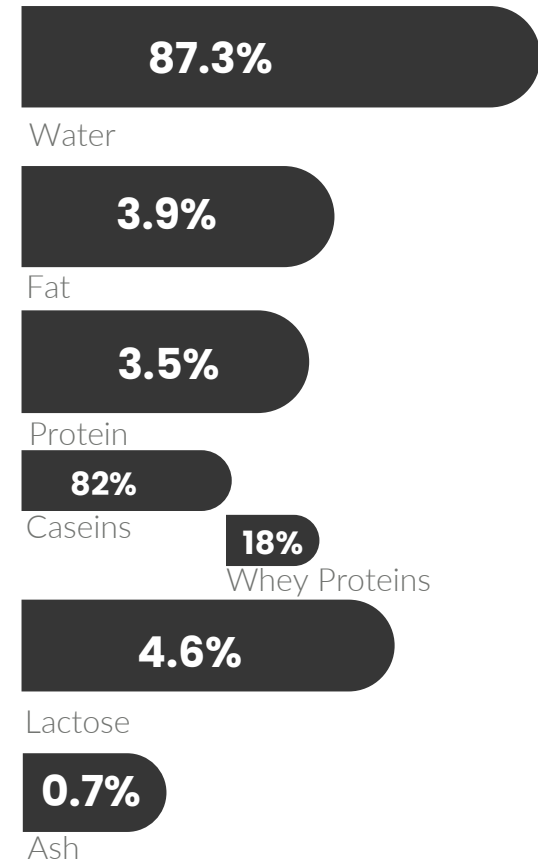
CAMEL MILK



VS



COW MILK





BENEFITS

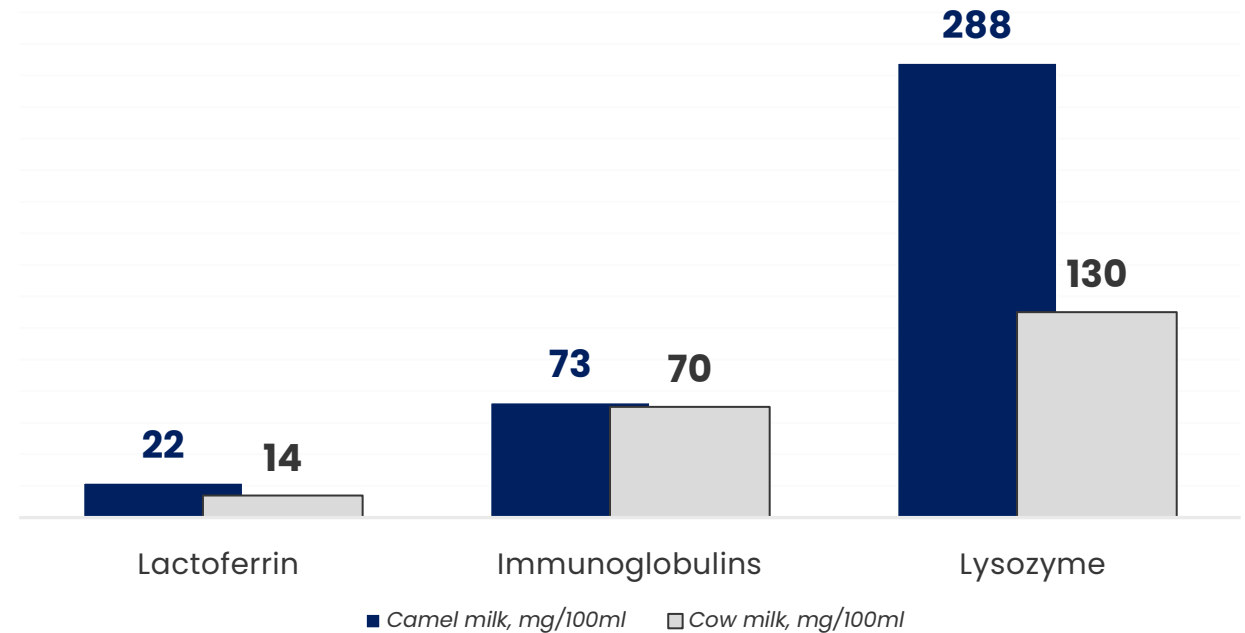
- Camel milk contains 2 times more proteins with “protective” function
- Special diet or functional food (medical nutrition)

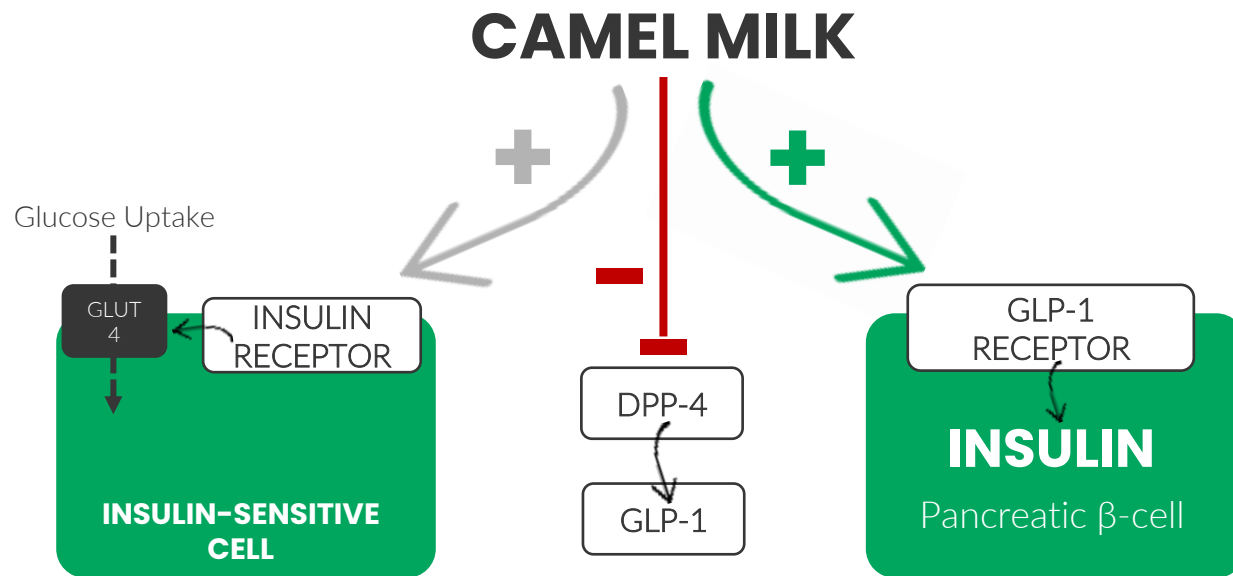


CHALLENGES

- Lack of detection methods available in the region
(Validated methods\ micro-quantities measurement required)
- Total volume of camel milk is still low for industrial extraction of “immune active” components

IMMUNE ACTIVE COMPONENTS OF CAMEL & COW MILK





BENEFITS

- Camel milk has been indicated in **improving long-term glycemic control** with reduction of insulin doses
- Special diet or functional food (medical nutrition)



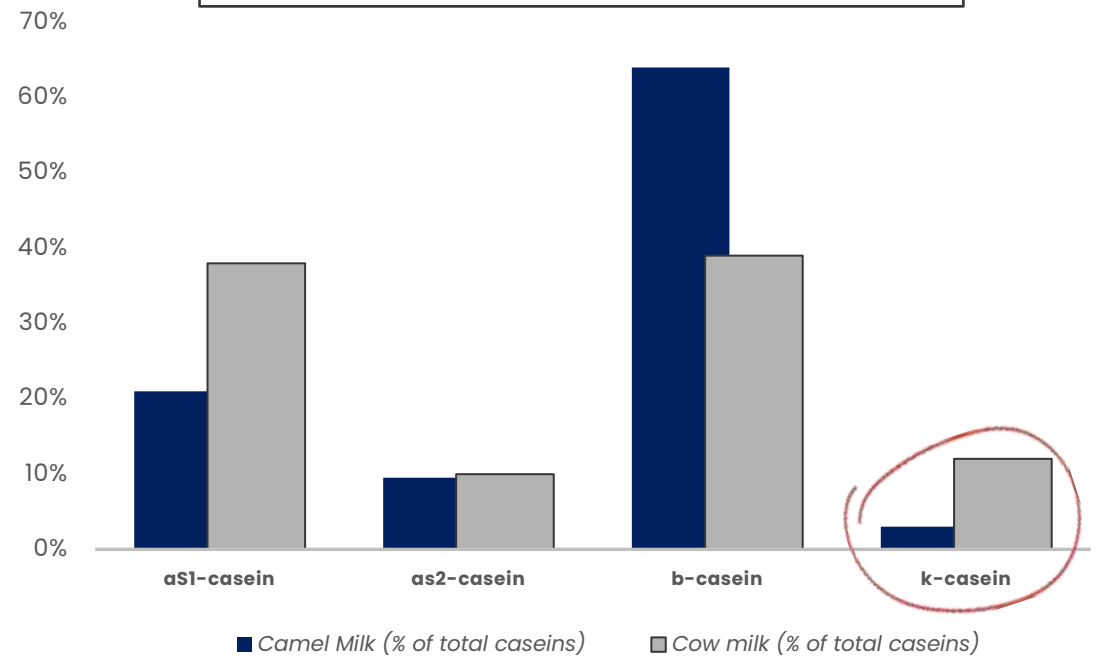
CHALLENGES

- Lack of detection methods available in the Region
- Lack of systematical medical research

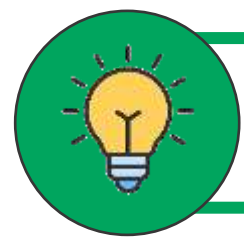
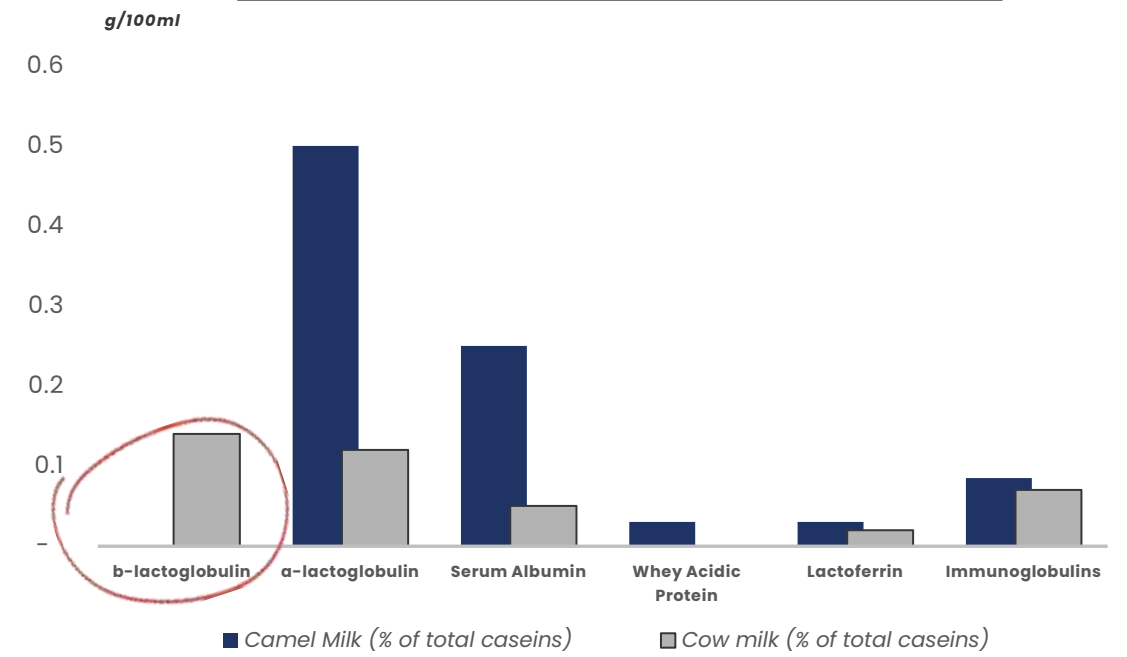
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TECHNOLOGY CHALLENGES

CASEIN COMPOSITION COMPARISON



WHEY COMPOSITION COMPARISON

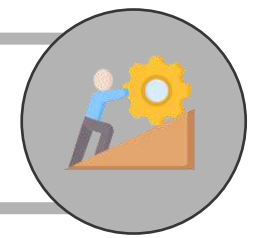


OPPORTUNITIES

- Camel milk can be used as a component of “hypoallergenic” functional products
- Infant formula, medical nutrition, pregnant formula

CHALLENGES

- Lack of k-casein in camel milk reduces clotting properties (Cheese and Yoghurt)
- Absence of b-lactoglobulin reduce heat stability of milk (Long life products)



5

AL AIN FARMS RANGE & WAY FORWARD



FRESH CAMEL MILK PRODUCTS

Camelait Full Cream Milk	1ltr, 500ml, 250ml
Camelait Low Fat Milk	1ltr, 500ml

CAMEL MILK POWDER PRODUCTS

Camelait Full Cream Milk	25kg, 400g, 25g x 10
Camelait Full Cream Milk (Tin Can)	400g

AL AIN FARMS RANGE & WAY FORWARD



WHERE AL AIN FARMS IS TODAY

- Al Ain Farms was founded 40+ years ago in UAE
- The Company operates in Camel, Dairy, Poultry & Juice manufacturing
- Al Ain Farms holds 30% of domestic consumption
- Major provider of UAE camel milk powder globally



WAY FORWARD

- Potential to increase UAE footprint in export markets
- Make UAE "Global leading player" in Camel milk powder
- Build Camel Milk global center of expertise

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