Explore Mars 2022

UNCONDITIONAL NUTRITION, ACCESSIBLE TO ANYONE, ANYTIME, ANYWHERE.
Aleph Farms

- Leading cultivated meat company, founded in 2017, headquartered in Israel with offices in the U.S. and in Europe
- From Medical research to the Food industry
- Stem cells, tissue engineering and 3D tissue bioprinting
Aleph Farms Milestones: World’s Firsts

- **The 1st beef steak cultivated on Earth**
  - by Aleph Farms in December 2018

- **The 1st meat cultivated in Space (ISS)**
  - by Aleph Farms & 3D-Bioprinting Solutions in September 2019

- **The 1st whole-muscle Ribeye steak**
  - by Aleph Farms in February 2021

Aleph Farms named among the “10 Israeli Innovations of the decade”

Cosmonaut Oleg SKRIPOTCHKA
Soyuz MS-15

Cells cultivation & 3D bioprinting
Aleph & the Technion
Aleph Farms Milestones for Space

1st space meat cultivation
Bioprinting of cow cells into micro muscle tissue

1st cultivated meat growth
Cell growth and differentiation Inside Lab-on-chip

1st end-to-end meat production
Production and cooking system with nutrient enrichment

Sept 2019

March 2022

Tomorrow
April 2022: Axiom-1 and the RAKIA mission

8 DAYS ON THE INTERNATIONAL SPACE STATION

LAB-ON-A-CHIP COW CELLS ARE CULTIVATED INSIDE A MICROFLUIDIC DEVICE
LAB IS MONITORED FROM EARTH VIA SPACEPHARMA ADVANCED LAB (SPACE)

COW CELLS PROLIFERATE TO ACHIEVE HIGH CELLULAR YIELD
COW CELLS DIFFERENTIATE INTO MUSCLE TISSUE

CELLULAR STATE OF COW CELLS IS DETERMINED BY RNA ANALYSIS AND IMMUNOHISTOCHEMISTRY AND COMPARED TO THE CONTROL GROUP ON EARTH

DR. NETA LAVON
CTO and VP R&D
Aleph Farms

EYTAN STIBBE
Astronaut
2nd Israeli in space

PASCAL ROSENFELD
Deputy VP Space & New Ventures
Aleph Farms

DR. ZVIKA TAMARI
Head of Space Research
Aleph Farms

Unique Features
Growth medium is automatically replenished
Earth’s magnetic control
Real-time monitoring

Earth result
Space result

MEAT FOR SPACE
April 2022: Axiom-1 and the RAKIA mission
Uniquely Tailored for Space life support

- Fully tailored portion sizes & nutritional composition
- Sterile, no pathogens, no contamination
- Closed loop & Longer shelf life at ambient temperature
- Standardized product in consistent price & quality
Thank you

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THE JERUSALEM POST
‘10 Israeli Inventions of the decade’

crunchbase
‘50 Hot Tech Companies Globally’