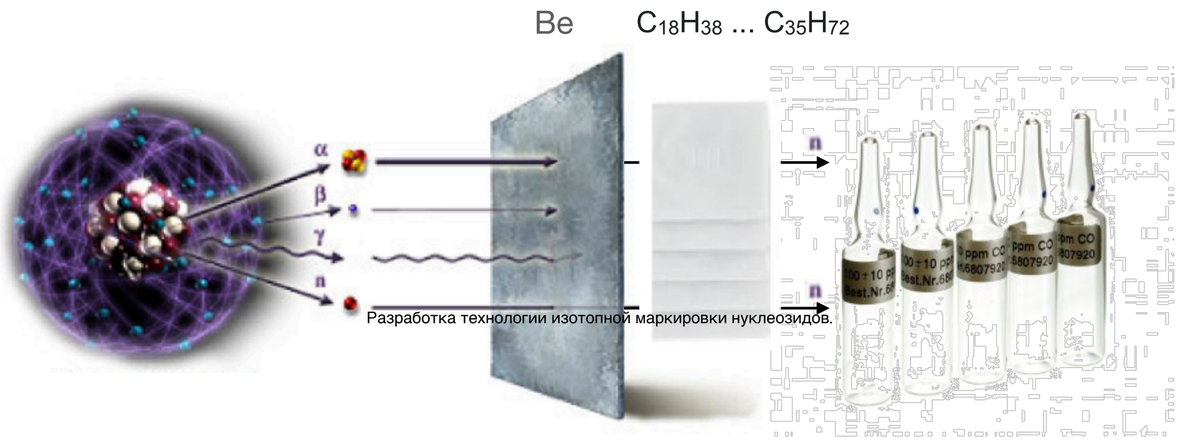
Heavy nucleosides



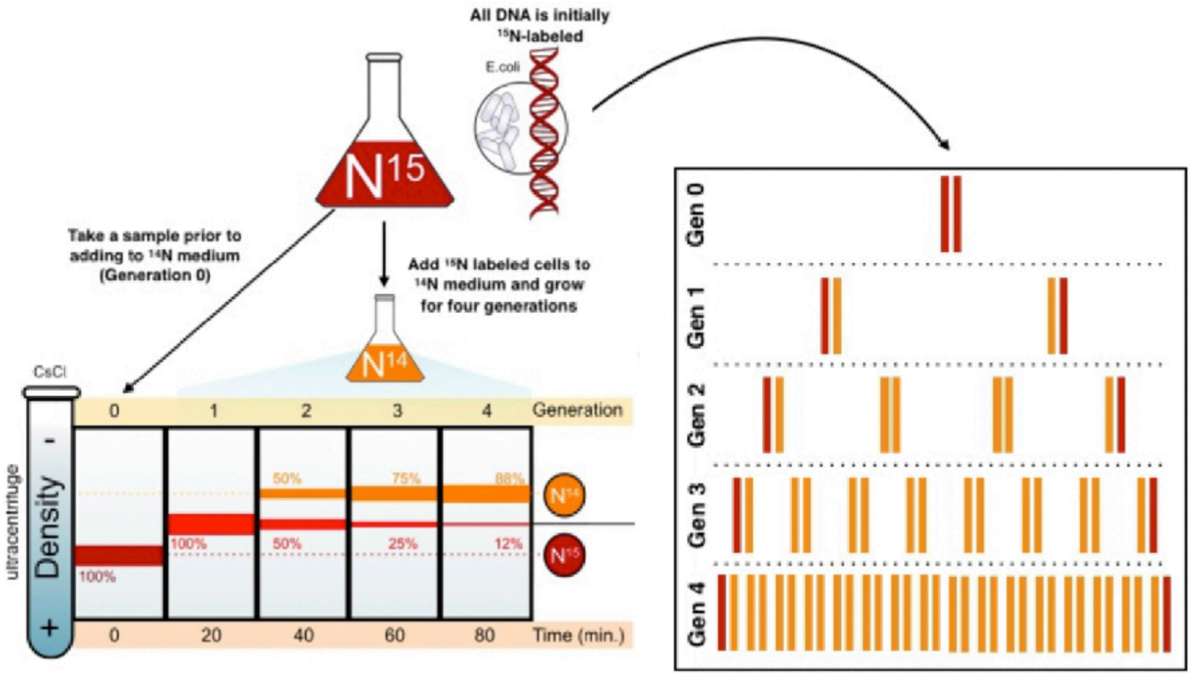
Разработка технологии изотопной маркировки нуклеозидов.

Development of technology for isotope labeling of nucleosides

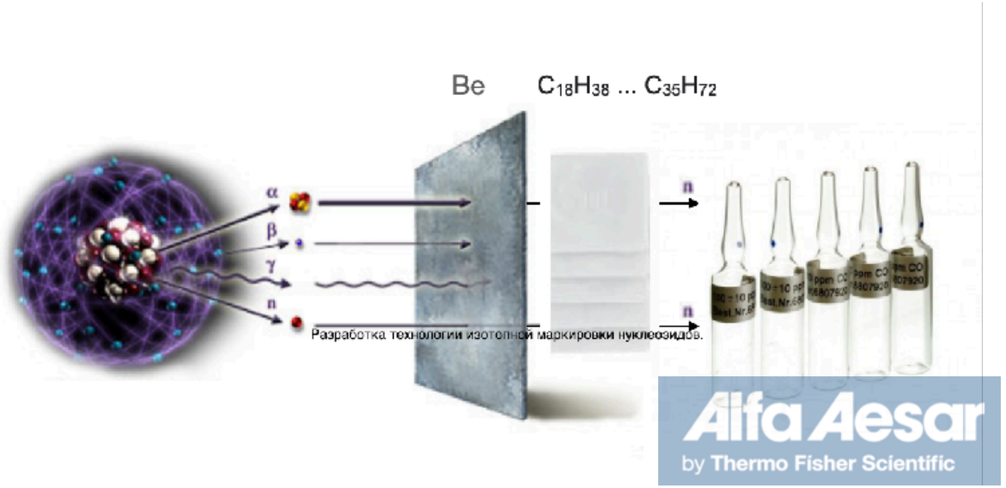
Use Case 1

Meselson-Stahl experiment

- E.coli as a model system
- the nutrient medium contains a "heavy" nitrogen isotope N^{15}
- bacteria absorbed nitrogen and used it to synthesize new biological molecules
- culture medium contains nitrogen isotope N^{14}
- DNA should now include N^{14}



The essence of the idea



Mark nucleoside atoms "in place" with slow neutrons

Commercialization

- sale of technology patents
- sale of labeled nucleosides

Market

- biotechnology
- chemistry
- the medicine
- pharmacology

seed up

40 000€ for 1 year

Financial plan for 2021-2022

Expenditure	Value €
Wage fund	15 000
Tax	1500
Work of co-executors	10 000
Materials	23 500
Laboratory costs	10 000
Total:	40 000

Income	Value €
Sale of products	61 338
Total:	61 338

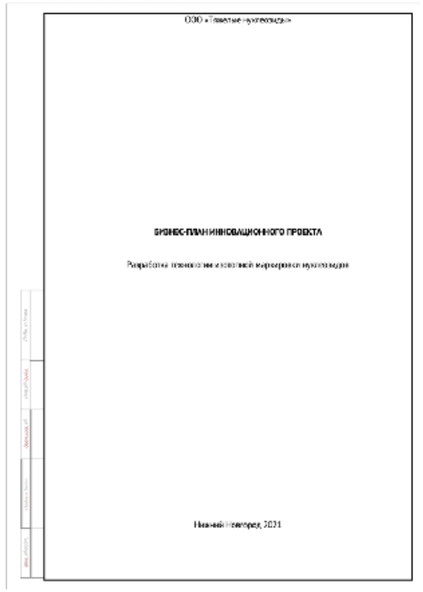
159,13%

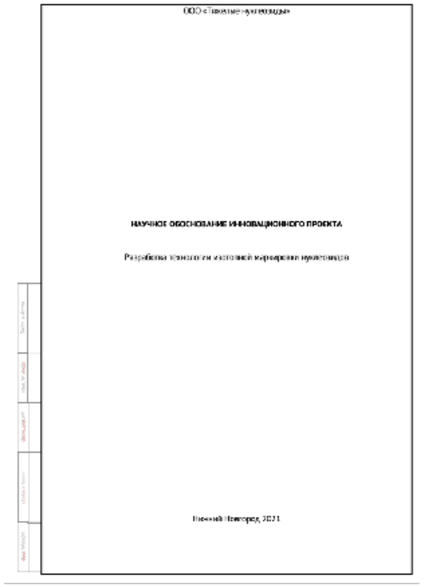
ROI

Состояние проекта

на этап пред-акселератора

- Сайт
- Бизнес-план
- Научное обоснование





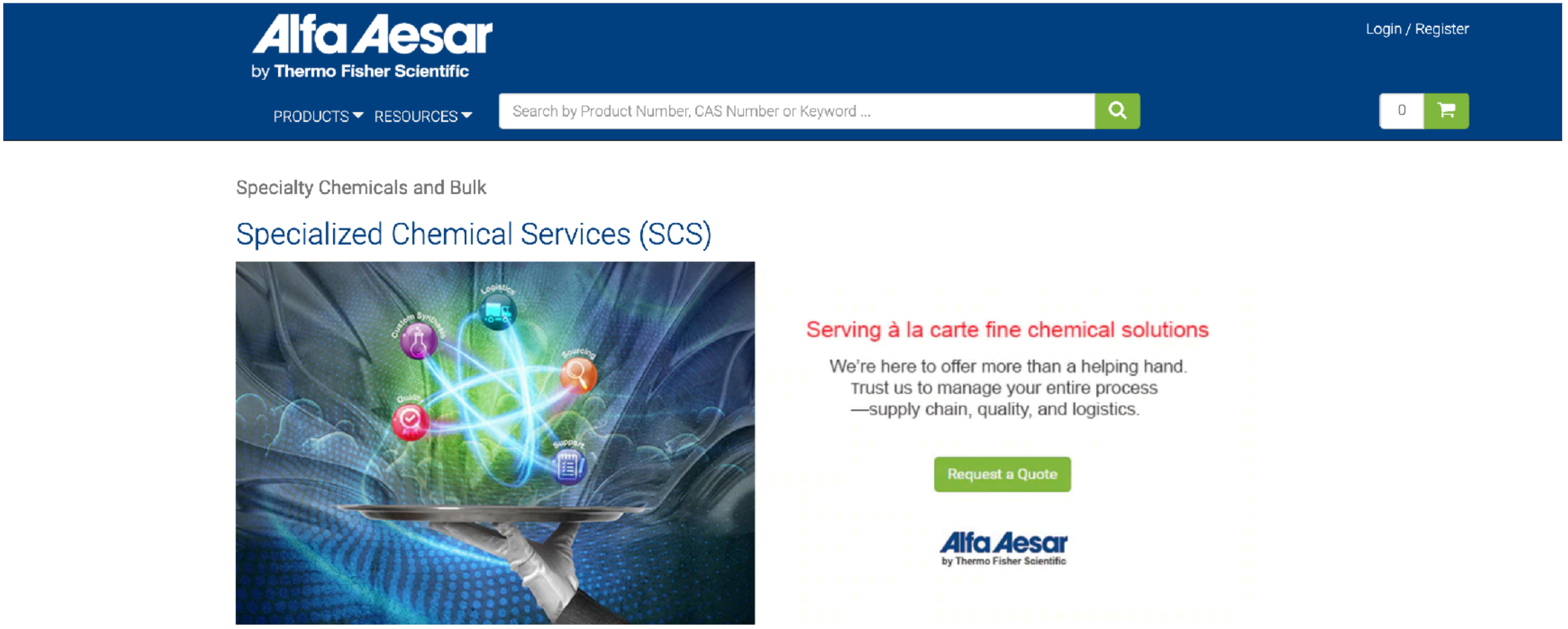
SOURCES

for the European market

- ISIS-Rutherford-Appleton Laboratories, United Kingdom
- Institut Laue-Langevin, Grenoble, France
- Leon Brillouin Laboratory, Saclay, France
- Berlin Neutron Scattering Center, Germany
- GEMS at Helmholtz-Zentrum Geesthacht, Germany
- Juelich Center for Neutron Science, Germany
- FRM-II, Munich, Germany
- Budapest Neutron Centre, Hungary
- RID, Delft, The Netherlands
- SINQ, Paul Scherrer Institut (PSI), Switzerland
- Frank Laboratory of Neutron Physics, Dubna, Russia
- St. Petersburg Neutron Physics Institute, Gatchina, Russia

MATERIALS

https://www.alfa.com/



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