

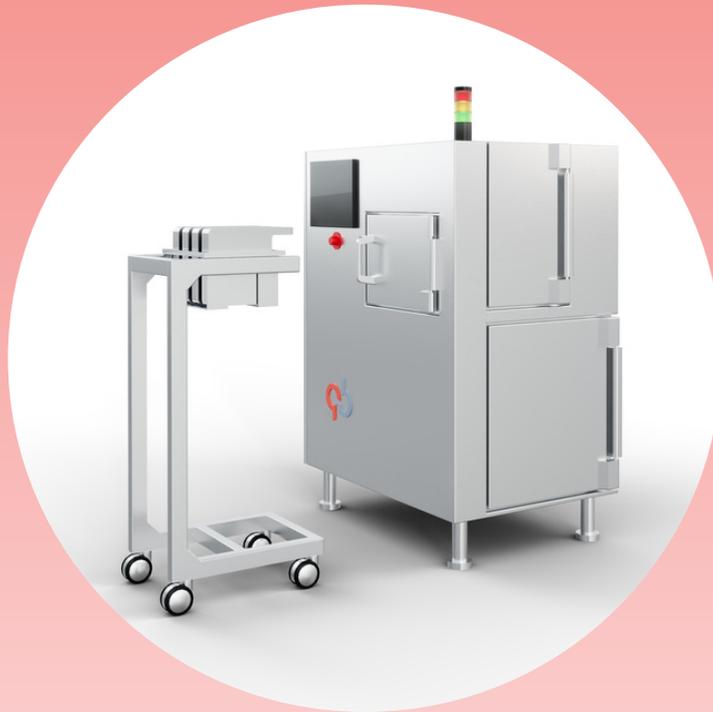
Fast Inactivation Technology

eFIT

Vaccine production

Research

CSS



Fast inactivation
time < 1 s



Scalable
system



No toxic
chemicals

Brief description

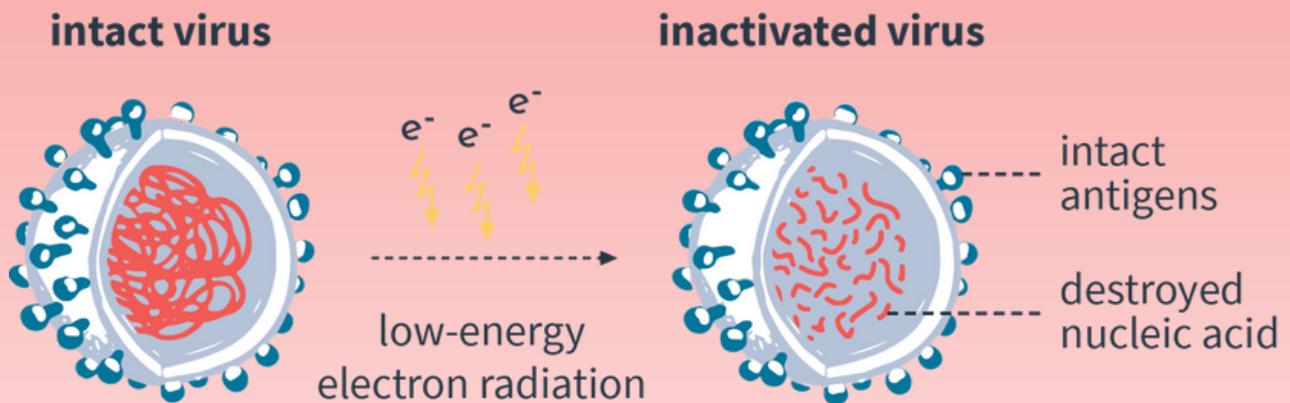
eFIT is a device for the inactivation of pathogens and cells in a liquid solution. By low-energy electron irradiation (LEEI) the genetic material is reliably destroyed.

Fields of application

The **eFIT** platform is suitable for both research (R&D) and small-scale manufacturing processes.

- Vaccine production
- Contamination control strategy (CCS): pathogen depletion in process media and blood-derived components incl. sera

Principle of LEEI



Relevant irradiation targets:

- Bacteria (gram+/-)
- Bacterial spores
- Viruses (enveloped, non-enveloped, DNA, RNA)
- Immunologically relevant cells
- Parasites
- Find more details here: <https://kyoobe.tech/ressources/>

Specifications - eFIT

Process Specs

- Batch size: 10 mL to 1 L
- Production speed: 0.33 L/h
- Radiation dose: 1 - 60 kGy
- Depletion level: > 6 log levels reduction
- Viscosity range: 1.0 - 4.5 mPa · s
- Temperature range: 2-20 °C

Technical Specs

- Footprint: 1400 mm x 850 mm x 2120 mm
- Weight: 1450 kg
- Power supply: 2x 400 V - 32 A and 1x 400 V -16 A
- Energy consumption: 1 kWh/h
- Control: Siemens
- Full lead-lined protection system
- Periphery: nitrogen supply, compressed air, cooling water (altogether ~ 5 m²)

Accessories

- Process cassette
- Validation cassette
- Dosimetry cassette
- Bag sizes: 50 mL / 200 mL / 500 mL / 1000 mL



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