

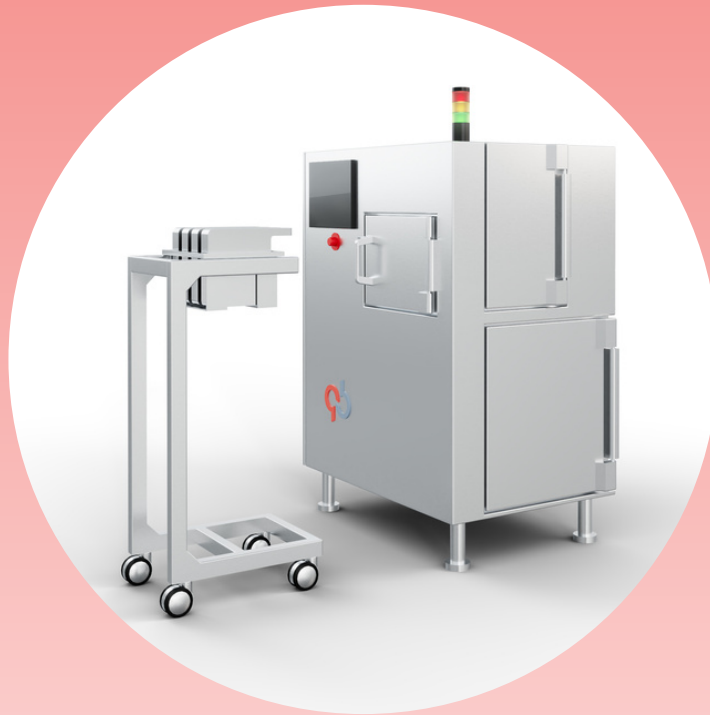
Fast Inactivation Technology

eFIT

Vaccine production

Research

CSS



Fast inactivation
time < 1 s



Scalable
system



No toxic
chemicals

Brief description

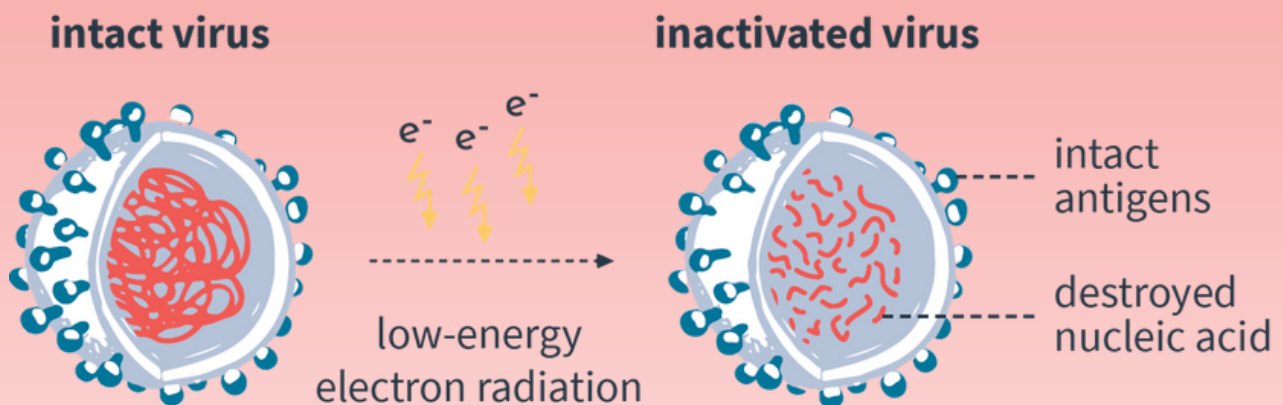
eFIT is a device for the inactivation of pathogens and cells in a liquid solution. By low energy electron irradiation (LEEI) the genetic material is reliably destroyed.

Fields of application

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

- Vaccine production
- Virus 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: 5-30 °C

Technical Specs

- Footprint: 1400 mm x 850 mm x 2120 mm
- Weight: 1250 kg
- Power supply: 3x 400 V - 16 A and 1x 230 V -10 A
- Energy consumption: 1 kWh/h
- Control: Siemens
- Full lead-lined protection system (< 1 µSv/h at 10 cm distance)
- Periphery: nitrogen supply, compressed air

Accessories

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



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