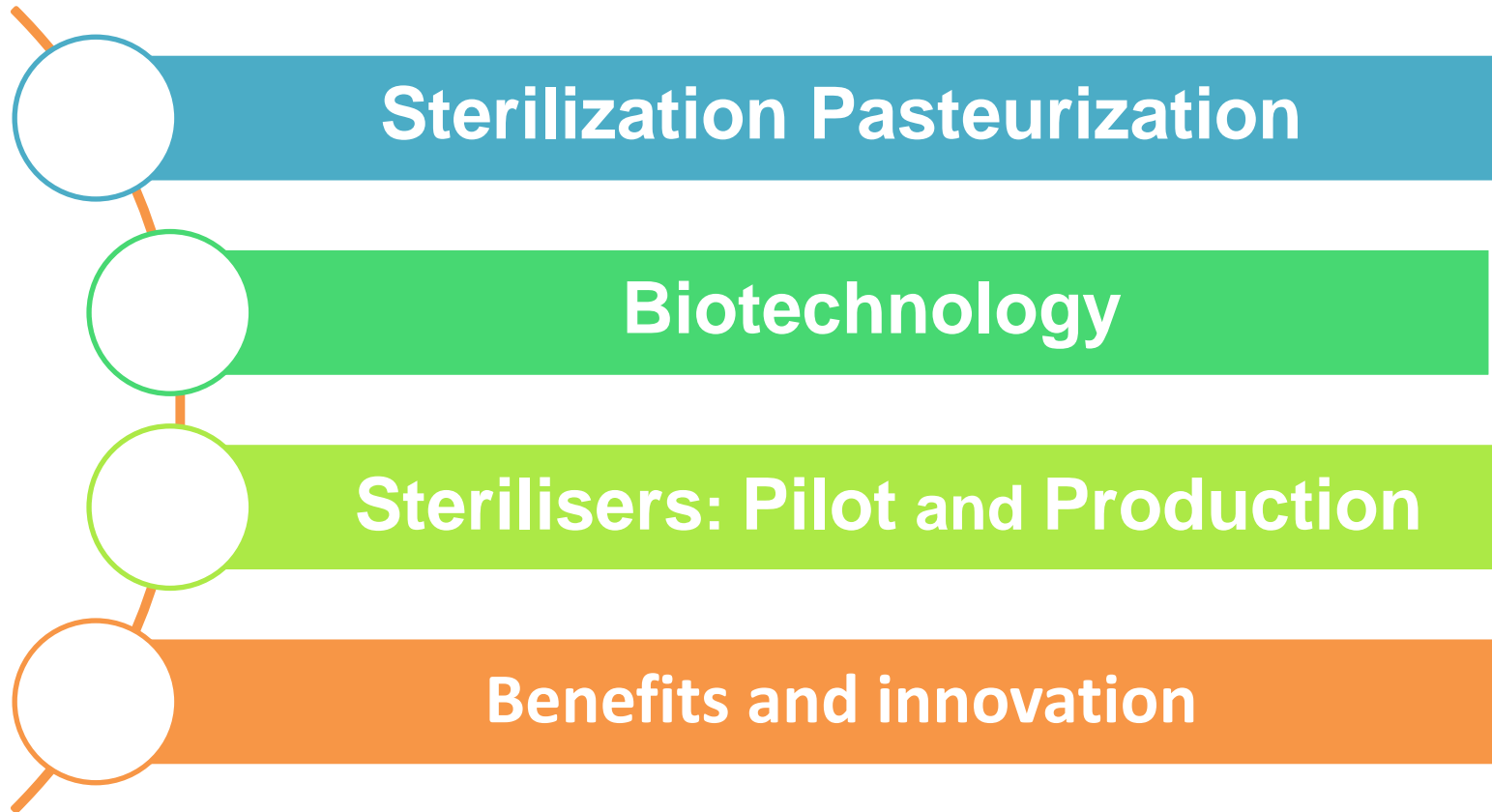


# HTST sterilisation - pasteurization to reduce contamination in media stream

**UBI Systems**



# Company Profile

The logo for UBI Systems, featuring the text "UBI Systems" in a bold, blue, sans-serif font. The text is set against a white rectangular background that has a slight 3D effect with a yellow-to-blue gradient shadow underneath.

“**UBI Systems** ” are sales agents specialists in **innovative** products for the pharmaceutical, biotechnology and related industries,

**We do seek and introduce innovative solutions and systems** . We have pioneered technologies such as :

- Hose washers
- Bio-waste Decontamination sinks
- UV Decontamination

**Particular attention is given to** details requirements from each customers .

We started as a control system and automation specialist for the pharmaceutical Industry 27 years ago , and started our new activity of Sales in the UK 16 years ago based on our know how

Our sales turnover is £2M to £3M per year with a small motivated team ...

**We do have a close** relationship with our partners allowing for a successful repetition of projects .

**We do offer standard proven validated systems**

# Media - Reducing log count

**UBI Systems**

## HTST Sterilization Pasteurization of Media stream

A practical innovative solution...

- **Inline sterilisation** or **pasteurization** of Media .
- High temperature reduces the log count significantly
- Short time means that the product **characteristics/quality will be preserved**
- Media is ***fed directly into the process to improve sterility when possible***

### Benefits

- **Flexibility** ; HTST can be applied at any stage of the process
- The Process length can be greatly reduced
- **Reduce the risk of losing batches** after days of processing



A purer  
product

# Media - Reducing log count

**UBI Systems**

## Pharmaceutical Process

- Nutrient media (agar, glucose solutions, salt, proteins...)
- Fermentation yield
- Active ingredients (peptides, insulin,...)
- Pharmaceutical liquids and creams (ophthalmic, parenteral nutrition,...)

## Cosmetic Process

- Liquid extracts (plant extracts, sugar-based, flavours...)
- Ingredients for cream

## Parameters needed to size a system

- Flowrate
- Viscosity
- Holding Time
- Volumes
- Regulations ( cGMP , CFR ....)



**A purer  
product**

# Media - Sterilisers

**UBI Systems**

## For trials

- Pilot plant 50 l/ hour to 250 l/ hour
- Multiple products tests
- Characterisation
- Temperature Time adjustment

## Industrial Pilot

- Pilot plant up to 1000 l/ hour
- Contract manufacturing
- Small batches
- For repeatability
- Aseptic design

## For process

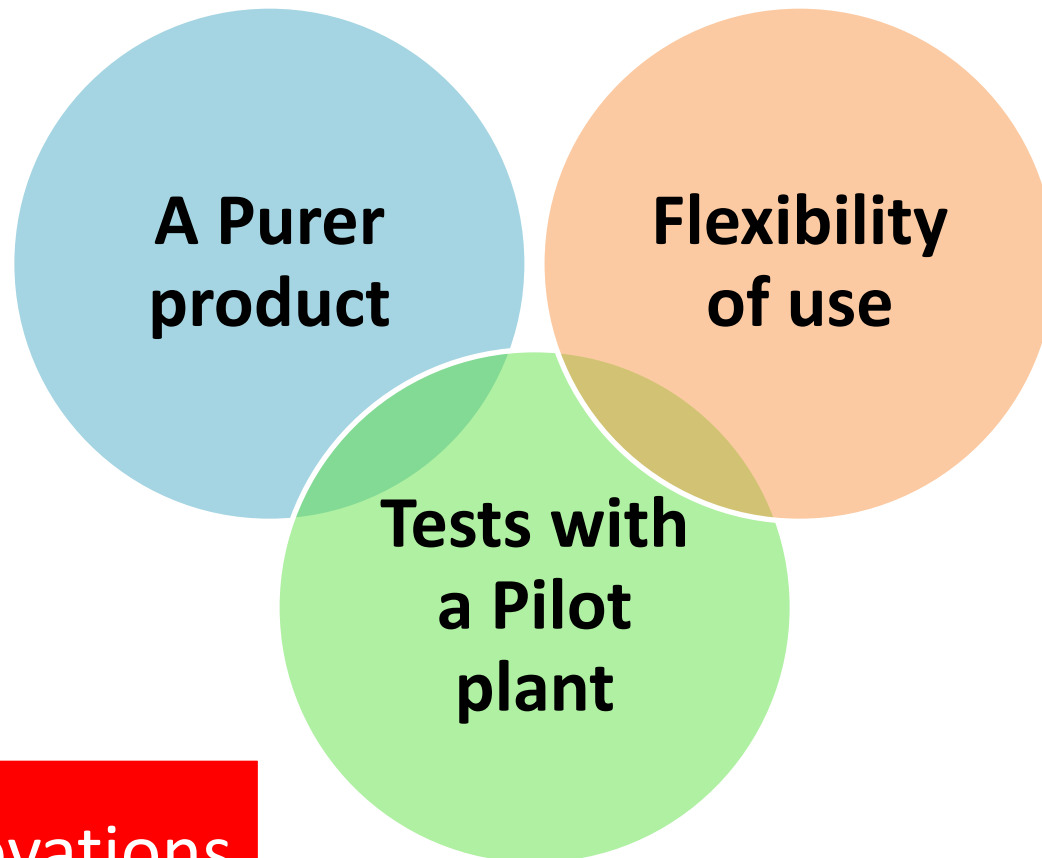
- Recipe system
- Temperature, Time
- A fully automated system
- Energy recovery



**HTST**

# Sterilisers: benefits and Innovations

**UBI Systems**



**Innovations**



# Some UK recent references ( 35 + total )

## UBI Systems



**PHE**



**PIRBRIGHT  
INSTITUTE**



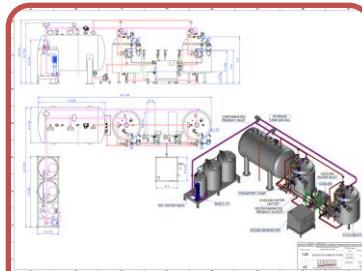
**SEQIRUS**



**IPSEN**



**Porton  
biopharma**



**VALNEVA**



**ASTRA  
ZENECA**



**UNIVERSITY**

