BOOSTING MONOCLONAL ANTIBODY PRODUCTION WITH PEPTIDES

Overcoming limitations of L-glutamine, L-tyrosine and L-cysteine

Glutamine Peptides

cQrex® AQ
L-Alanyl-L-glutamine

cQrex® GQ
Glycyl-L-glutamine hydrate

Tyrosine Peptides

cQrex® AY
L-Alanyl-L-tyrosine trihydrate

cQrex® GY
Glycyl-L-tyrosine dihydrate

Cystine Peptides

cQrex® AC
N,N′-di-L-Alanyl-L-cystine

cQrex® KC
N,N′-di-L-Lys-L-CySS 2HCl H_2O

Product features:

- Chemically defined
- Soluble at neutral pH
- Bioavailable
- Non animal derived
- Stable in culture medium

Superior cell culture performance

Intensification

- **Increased concentration** of nutrients
- **Cell growth** enhancement
- **Cell viability** and VCD improvement

cQrex®

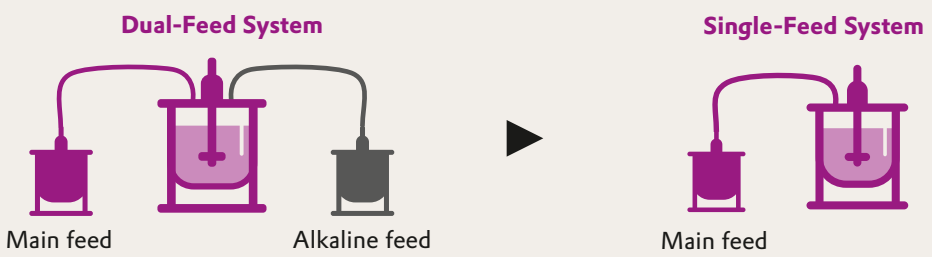
Productivity

- **Higher mAb titers** and cell-specific productivity
- **Cost saving** opportunities
- **Highly efficient mAb production**

Simplification

- **Single-feed system** at neutral pH
- **No extreme pH** required
- **Lower risks** for bioprocess and operators

Example:
Conversion of a dual-feed into a single-feed system with cQrex® GY and cQrex® KC



Flexible use of cQrex® peptides in media formulation

Supplements to existing formulation

Example: Adding cQrex® GY to commercially available media

Replacement of challenging amino acids

Example: Replacing L-cysteine by cQrex® KC in basal or feed media

mAb: monoclonal antibody; VCD: viable cell density

EVONIK
Leading Beyond Chemistry