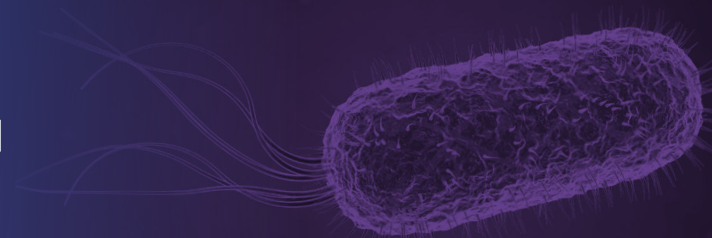




PUREplatform™

+ PUREcoli™ Strain + PUREplasmids™ + PUREmedia™



Introducing KBI's PUREplatform™, Featuring PUREcoli™

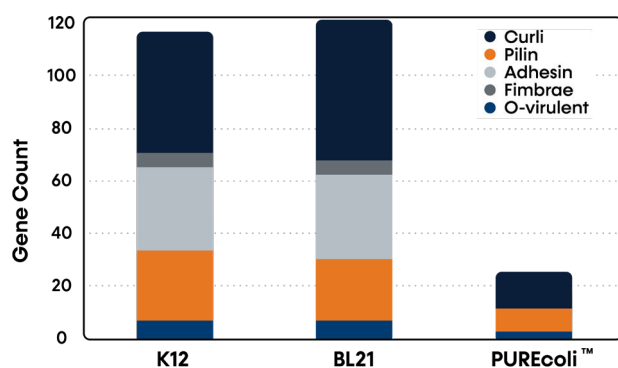
A pure microbial strain for clean, efficient therapeutic protein production. As part of our proprietary KBI PUREplatform™, PUREcoli™ can be paired with PUREplasmids™ and PUREmedia™, as well as our cutting-edge fermentation process that provides a complete service package, catered to your needs.

Optimized

Proprietary genetic engineering creates an unprecedented strain optimization for biotherapeutic expression (1,000 genes edited).

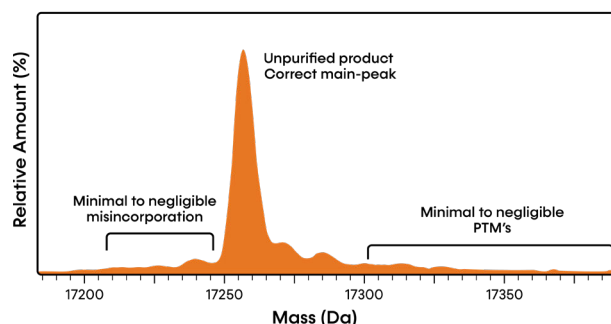
Safe

The PUREcoli™ genome has been refined to eliminate unnecessary or potentially virulent genes.



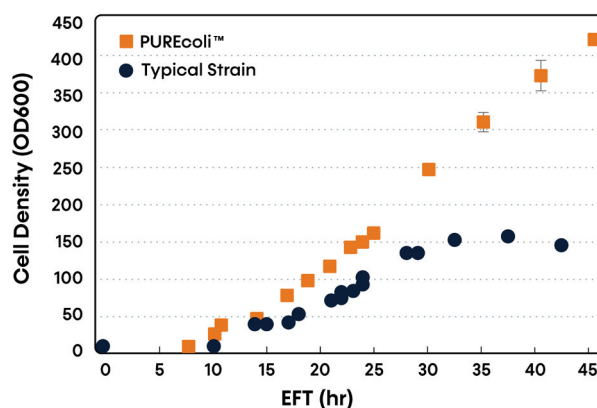
Pure

Thanks to fewer product and process impurities, PUREplatform™ is PURE in, PURE out.



Performant

PUREplatform™ offers cell growth up to 50% faster and 3x as dense as a traditional microbial strain, saving up to half a day per fermentation.

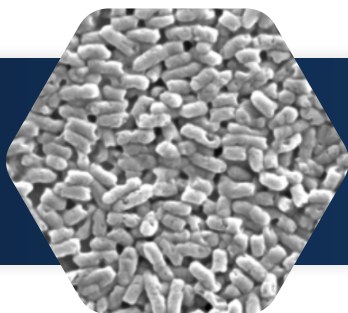


PUREplatform™ increases titers by a log-factor. More cells + more product/cell = titer up to 50g/L.

Molecule	PURE Platform™	Fold Better
Biosimilar ¹ (IB)	20+ g/L	20X
Client ¹ (IB)	20+ g/L	40X
Cytokine ¹ (Soluble)	30+ g/L	12X
CFP ² (Soluble)	50+ g/L	10X
Client ² (Secreted)	8+ g/L	10X

Inclusion body (IB), Cyan fluorescent protein (CFP)

1. Pilot and Ambr250 scale
2. Ambr250 scale



PUREcoli™: The High Performance *E. coli* Cell Line Your Microbial Program Needs

Upgrade to commercial-ready programs with PUREplatform™

- ✓ Expansive proprietary library of high-expressing and secreting *E. coli* strains and plasmids resulting in high titers
- ✓ High Cell Density (OD600>400; WCW ~40%)
- ✓ Fast growth saves up to half a day per fermentation batch
- ✓ No antibiotics required
- ✓ Operationally robust through optimized metabolism for reduced oxygen consumption and minimized antifoam
- ✓ Negligible post-translational modifications
- ✓ Strain history and characterization report available for filing according to ICH Q5D, including metabolomics, transcriptomics, and Whole Genome Sequencing
- ✓ Paired with PUREplasmids™ and PUREmedia™ in various screening packages
- ✓ Produced in FDA/EMA inspected facilities
- ✓ Up to 3x reduced endotoxin and host cell protein (relative to protein of interest)
- ✓ Streamlined downstream processing

Key benefits



Comprehensive solution

Strains, plasmids, media, and a fermentation process in one convenient and customizable package



Scalability

From premium cell line development through late-stage and commercial manufacturing



Versatility

Designed for various types of proteins and expression modalities



Efficiency

High-throughput fermentation conditions



Cost-effective

Reduces cost of goods and shortens development timelines

The PUREplatform™ Difference



Discover how PUREplatform™ can upgrade your microbial program by reducing impurities and increasing titers. **Reach out to our experts to learn more by scanning the QR code.**

