

# Celluloid Technology

AI optimized AAV bioreactor to increase your confidence and speed up your lab to market gene therapy

## What are AAVs

Adeno-associated virus (AAV) is a single stranded DNA virus that can be engineered and used as a host vector for gene therapy. These nonenveloped viruses can infect both dividing and nondividing cells with high efficiency. These attributes not only broaden applicability to a wider range of genetic disorders, but demonstrate efficient delivery at lower doses. The low immunogenicity and minimal genome integration of AAVs also enhance their safety profile, making them suitable for both short- and long-term therapies.

## Industry Limitations

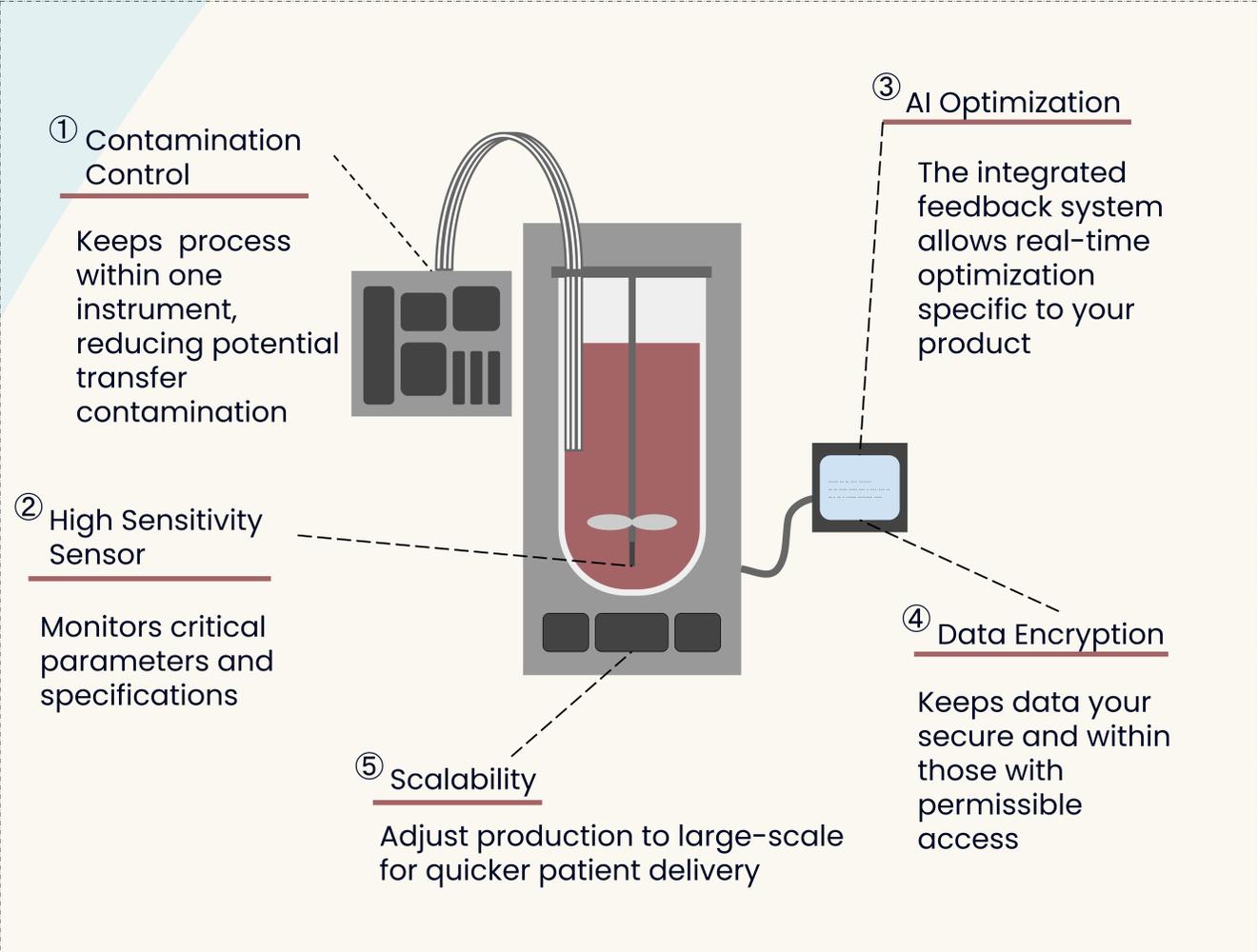
- High risk of contamination.
- Lack of scalability / Inability to produce on large-scale for commercialization.
- Bottlenecks in process development.
- Limited biological understanding and lack of analytical tools.
- Wasted time and materials on optimizing fermentation protocols.

## Market Potential



- Biopharma Companies → Target Disease
- Therapeutic Applications → Geographically

## Our Bioreactor



## Value Proposition

AAVs, while proving to be effective, are difficult to culture at large scale production. Prone to contamination the fermentation process is a major pain point for biopharmaceutical companies. Our proprietary bioreactor system optimizes the production of AAV vectors used in gene therapy by combining sensors and AI algorithm to ensure consistently high quality AAV production while reducing production costs and timelines. Celluloid Therapeutics is able to give companies the confidence and independence to test their proprietary cell lines without the hassle of process development bottlenecks.

## Key Takeaways

- Manufacturing scalability, resulting in faster lab to market turnaround.
- Reduces process development.
- Consistency in high quality production.
- Investing in independence via production and data.

## Traditional Practice

	Cost Effective (large-scale)	AI Optimized	Efficiency	Contamination Control	Scalability	Data Safety	Control
Manual Labor	✓					✓	✓
Service				✓			
Single-use				✓		✓	✓
<b>Celluloid Technology</b>	✓	✓	✓	✓	✓	✓	✓

## Meet the Team

- Gabrielle Kerkow, CEO
- Kevin Tran, CFO
- Trusha Thakore, CMO
- Savanna Trinh, COO