



## SMARTag™ ADC TECHNOLOGY

Advanced technology for the development of optimized antibody drug conjugates

**SMARTag™ ADC technology enables biologic innovators to develop more efficacious antibody drug conjugates faster.** Developed by Redwood Bioscience, this new platform leverages Catalent's biologic drug development expertise, advanced GPEX<sup>®</sup> expression system, clinical biomanufacturing and integrated services, offering a number of advantages to ADC developers:

### Site-Specific, Programmable Drug Placement

- Novel aldehyde tagging technology
- Control of drug location to maximize ADC performance
- Improved consistency of ADC product
- Better regulatory compliance

### Cytotoxin/Linker & Conjugation Technologies

- Improved stability and payload release
- Range of toxin/linkers to optimize efficacy by target

### Efficient & Scalable Process

- One step in vivo tag generation
- Compatible with any cell-based expression system
- Simplified analytics

- S** SPECIFIC
- M** MODIFIABLE
- A** ALDEHYDE
- R** RECOMBINANT
- T** TAG



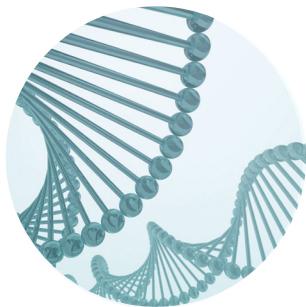
DEVELOPMENT



DELIVERY



SUPPLY



## Advantages Over Other ADC Systems

### **Flexible, Programmable Payload Placement**

- Provides truly homogeneous ADCs
- Enables more uniform attachment at a specific site for optimized PK, safety and efficacy
- Not achievable with “location limited” conjugation technologies

### **All-Natural, Site-Specific Protein Modification**

- Employs all natural amino acid sequence
- Leverages naturally-occurring enzyme modification

### **Minimal Cell-Line Engineering Across Multiple Expression Systems**

- Easily incorporated into any cell line, both eukaryotic and prokaryotic
- Minimal manipulation of cell lines resulting in high production titers
- Introduction of multiple tags possible

### **Proprietary Conjugation Chemistry & Toxin-Linker Combinations**

- Conjugation chemistry enhances ADC stability
- Toxin-linker combinations can be optimized for specific targets

### **Clear Intellectual Property Rights**

- Relies on unique natural tag approach
- Issued IP broadly covering COM and methods

## Why Catalent Biologics?

We provide customized, flexible solutions to help you get better biologic treatments to clinic, faster.

- Faster cell line development with our proven GPEX<sup>®</sup> Technology, generating stable, high expression mammalian cell lines
- Enhanced potency, safety and stability of ADCs with SMARTag<sup>™</sup> ADC technology
- Expanded clinical-scale biomanufacturing utilizing single-use systems
- Integrated solutions across your development value chain:

**PRE-FORMULATION/FORMULATION SERVICES**

**ANALYTICAL LAB SERVICES**

**CLINICAL TRIAL SUPPLY MATERIAL & FILL/FINISH SUPPLY**

Every molecule has a challenge.  
We have smart biologic solutions.

more products.  
better treatments.  
reliably supplied.<sup>™</sup>

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