

# What are the critical success factors for a biotech’s first commercialization in Europe?

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## INTRODUCTION

### BACKGROUND

Smaller biotechnology companies have pioneered transformative discoveries and therapeutic tools, such as gene therapies, CAR Ts, and antisense DNA. On the precipice of commercialization, biotechnology company’s have an important decision to make: *“Should we commercialize in Europe as well as the USA?”* The \$246 billion potential European market offers substantial opportunity for smaller biotech companies however, navigating its highly localized HTA systems is daunting.

### OBJECTIVE






Explore European **commercialization outcomes** for smaller biotechnology companies, & **identify critical questions & success factors** to be considered to support the **delivery** of in-demand **therapies** to **HCPs & patients**

## METHODOLOGY

### STEP 1: BIOTECHNOLOGY COMPANY SCREENING

Identified 150+ biotechnology companies (*not top-50 pharmaceutical companies*) who have successfully, or attempted to, launch in Europe with HQs in the USA or Asia. Filtered company list from **150+ to 25 companies** based on criteria in **Fig. 1**.

Figure 1: Biotechnology company list filtration criteria

	<b>Biotechnology definition</b> Company based in USA or Asia, with no established EU presence
	<b>Launch attempts</b> Company's >1 launch attempts were included & non-commercialized outcomes assessed
	<b>Type of launch asset</b> Biosimilar & generic companies were excluded
	<b>Timeline</b> Launch attempt within last 10 years
	<b>EMA opinion</b> Assets with negative EMA opinions were excluded

### STEP 2: COMPANY STRATIFICATION

Companies were grouped into one of three categories (**examples** below):

- Go-it-alone:** BluebirdBio, Blueprint Medicines, Rhythm Pharmaceuticals
- Partnership:** Esperion, Myovant sciences, Atara Bio
- Acquisition:** Kite Pharma

### STEP 3: EVALUATION FRAMEWORK

Retrospective structured secondary research across themes and criteria to uncover pillars for success across the three business models (**Fig 2.**):

Figure 2: Biotech European launch evaluation framework overview

Theme	Criteria overview	
Company	Biotech	Mission, vision & company goals
		Company portfolio & therapeutic area strategy vs launch asset
		Location including where they established EU HQ
		Leadership including EU specific hires for launch
Company	Partner	Financial resources including market cap & cash runway
		Team structure & evolution for EU market
		Estimated headcount at time of EU launch
Company	Partner	Type of Partner (e.g., VC, pharmaceutical company)
		Partner portfolio & therapy area strategy focus
		Partner mission, vision, values & goals
		Value of & published detail of deal
Company	Partner	Partner prior EU launch experience
		Success of deal & partnership
Asset	Asset	Asset modality & mechanism of action
		Level of unmet need in EU population & size of addressable population
		EU launch indication(s)
		Competitiveness of EU market
Asset	Asset	Data package (e.g., no. of trial patients, trial sites, endpoint buy-in, quality of data)
Launch readiness	Launch readiness	Market shaping activities (e.g., conferences, publications, partnerships with KOLs, PAGs.)
		EU countries where they successfully gained access
		Experienced market access professionals to navigate negotiations
		Commercialized or non-commercialized outcome of future EU launches (post first launch)
Launch readiness	Launch readiness	Manufacturing managed in-house or contracted

## RESULTS

### BIOTECH EUROPEAN LAUNCH MODEL OUTCOMES

Successful commercialization was linked to leveraging partnership expertise. **Non-commercialization occurred in 50% of biotechs assessed who pursued ‘go-it-alone’**, indicating greater risk (**Fig. 3**):

Figure 3: Partnership model outcomes (n = 25)

Go-it Alone Launch	5	5	Commercialized
Full Acquisition	1		
Co-Commercialisation		14	Non-commercialized

### BIOTECH EUROPEAN COMMERCIALIZATION CONSIDERATIONS

Analysis identified a biotechs first European commercialization is **contingent on a combination of factors**. It is **unlikely one factor will determine the outcome**.

Figure 4: Commercialization considerations overview

<b>Disease burden &amp; unmet need</b>	How high is the level of unmet need within the indication(s)? How burdensome is the disease & current treatment on patient quality of life, across the patient journey?
<b>Clinical trial sites &amp; endpoints</b>	Have trials been initiated in European markets? If not, is the demographic of patients similar in the trial market(s)? Have discussions with European regulatory authorities occurred ensuring they will accept data from other regions for this disease? Are trial endpoints widely accepted by the main stakeholders?
<b>Asset level of innovation</b>	Is the asset mechanism of action & modality accepted by the clinical community, payers, & current clinical guidelines?
<b>HTA &amp; access knowledge</b>	How well defined are HTA pathways for the indication & modality? How challenging has it been for analogous company's/ assets to gain access & negotiate an approved price?
<b>HCP sales force engagement</b>	Are target patients & HCPs located in concentrated specialized centers or distributed across hospitals/ primary care practices? Given this, what size of sales force is required to achieve target engagement?
<b>Manufacturing</b>	What size & complexity of manufacturing facilities are required to meet demand?
<b>Supply chain</b>	What is the ease of delivering the therapeutic to the patient?

Answers to these key considerations will **establish the level of risk to ‘go-it-alone’** based on the likely experience, resource & financial funding needed to achieve European commercialization

#### Gene therapy case study – value of a partnership when the barrier to commercialization is high

A more challenging modality to launch given the height of the barriers for success including stakeholder unfamiliarity, evolving clinical guidelines & practice, navigating difficult payer negotiations & supply chain

- Commercialized outcome:** Regenxbio partnered with Novartis to launch onasemnogene abeparvovec
- Non-commercialized outcome:** BluebirdBio attempted to ‘go-it-alone’ for betibeglogene autotemcel

## CONCLUSION

### EARLY PREPARATION IS EQUALLY AS IMPORTANT AS EXECUTION

Learnings from the retrospective analysis, combined with the European biotech launch framework criteria, enables biotechs to identify the right questions & considerations **early** when making critical commercialization decisions. This should support biotechs to take the optimal commercialization route for their company & asset, enabling the delivery of therapeutics to patients.

References

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