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Expanding CMOs



Companies Aim to Stand Out in Global Pharmaceutical Contract Manufacturing Market

Joining The Supply Chain – Pharmaceutical contract manufacturing used to be viewed as a one-off activity where a pharmaceutical company outsourced a drug for manufacturing predominantly because of capac-

manufacturing to integrating themselves into the supply chain of pharmaceutical companies, right from the early-stage activities, including preformulation design, process optimization, preclinical stage to commercial manufacturing, fill-finish services, packaging and logistics, regulatory, analytical, and marketing support.

Challenges of the Existing CMO Business Model

Fragmented market and price pressure drive down CMO revenues

pharmaceutical The contract manufacturing market remains highly fragmented, with many CMOs (contract manufacturing organizations) relying on one client for more than 50% of their revenue. This suppresses prices throughout the industry. Based on experience cost and size nearly 60% to 80% of pharmaceutical companies consider going back to preferred suppliers. Furthermore, CMOs face immense price pressure because of tax incentives and lower inventories for low-volume products. Manufacturing costs must drop up to 30% to generate tax savings.

niche products, orphan drugs and generics as well as emerging markets present poor profit margins and lower inventories for CMOs, thereby resulting in price pressure and increased competition. The existing CMO business model can address only the basic requirements of global pharmaceutical companies such as unit cost, technology, IP protection, cost flexibility, and security of supply. This model does not cater to the restructuring costs (compensation arrangements and disposal of old facilities), financial effects (tax implications, government subsidies and exchange rate exposure) and commercial demands (local market approvals, portfolio and brand).

Lack of venture capitalist (VC) funding for early-stage companies will result in lower expenditures than prerecession levels.

A majority of VC firms prefer investing in companies with promising late-stage (phase II and phase III) drug candidates than in early-stage companies. The United States and Asia seem to be more attractive targets for VC firms than Europe, as Europe has been comparatively slow in regaining financial stability. In 2011, pharmaceutical R&D spending decreased for the first time in more than a decade in major markets such as the United States. Overall, VC investments in the pharmaceutical contract manufacturing market seem to be on a declining curve over the next five years as investors back away.

Unmet Market Need	Potential Game-Changing Strategy
An integrated, end-to-	Increased focus on preclinical development services such as formulation development, process support, pro-
end business model on	cess development, clinical trial manufacturing, analytical service and regulatory support in addition to the core
a risk-sharing basis with	custom manufacturing services is necessary to integrate into the value chain at early life-cycle stages and to
clients	build long-term relationship with clients.
	To attract more clients, certain CMOs likely will adopt a differentiation strategy that includes repositioning
	themselves among clients by promoting more services such as formulation improvements, alternate dose for-
	mulations, real-time order tracking, and logistics support.
	Patheon and DPT Laboratories have been two such leading CMOs that have positioned themselves as develop-
	ment service providers capable of transitioning from offering clinical services to commercial manufacturing.
Instilling new capabili-	Industry consolidation by means of acquisitions and strategic alliances to expand capabilities in new product
ties and anticipating	and service segments as well as new geographies has made Aenova one of the fastest-growing companies.
capacity demand for	Aenova's foray into the liquid and semi-solid dose formulations segment by the acquisition of the Temmler
careful outweighing of	Group in 2012 has resulted in a significant increase of market shares and capacities to meet global demands.
benefits and risks	
Demand for next-gene-	Because of increased focus of big pharma companies on biologics to address unmet needs in therapeutic areas
ration biological thera-	such as oncology, the injectable-dose formulations segment — which is a low-volume, high-margin business
pies such as vaccines,	— will likely be the growth driver for CMOs.
anti-cancer therapies,	Key focus areas in sterile manufacturing of injectable-dose formulations include vaccines, anti-cancer thera-
gene therapies, specia-	pies, antibodies, gene therapies, specialized antibiotic treatments and proteins.
lized antibiotic treat-	Hence, investments and capacity expansions in injectable-dose formulations manufacturing will help CMOs,
ments and recom-	particularly the small and medium-sized, to grow and sustain their businesses in the market.
binant proteins	Cytotoxics and lyophilized products dispensed as injectable-dose formulations are expected to be a significant
	source of revenue for CMOs; therefore, more contract manufacturers likely will develop these capabilities.

with overfilling of expensive drugs,

thereby resulting in significant cost-

savings. This likely will be a major

Other factors driving the growth

of the injectable-dose formulations

segment include rapid onset of ac-

tion, better therapeutic efficacy and

greater return on investments to

Unmet Market Needs and Potential

Game-Changing Strategies

Given the challenges and complexi-

ties of the existing business model of

manufacturers.

driver for outsourcing to CMOs.

strong growth in the past five years, with a compound annual growth rate (CAGR) of 18.7% from 2007 to 2012. The significant growth for injectabledose formulations is expected to continue in the next five years attributed to the following key factors:

The highly sterile and aseptic conditions and skilled personnel required for manufacturing injectable-dose formulations fuel demand for outsourcing as it appears to be a viable alternative to additional manufacturing capacities for pharmaceutical and biotech companies.

Cytotoxics are expected to be the key growth driver for the injectabledose formulations segment because of the robust demand for oncology and other high-potency drugs such as antibody conjugates, steroids and IV fluids that require quick onset of action. Pharmaceutical and biotech companies prefer prefilled syringes for existing and new products as prefilled syringes eliminate issues

CMO. But differentiation strategies such as repositioning themselves among clients, capturing projects at early life-cycle stages and entrenching an integrated end-to-end business model are likely to pave the way for growth and sustenance in a market as highly fragmented and regulated as pharmaceutical contract manufacturing.

Aiswariya Chidambaram, senior research analyst life sciences, Frost & Sullivan's Healthcare **Practice Europe**



Lower unit volumes and new technologies likely will pose a threat to CMOs.

Injectable-Dose Formulations Likely to Spur the Growth of CMOs

Despite the current dominance of solid-dose formulations, injectabledose formulations have experienced

CMOs globally, market participants must adopt potential game-changing strategies, both to address unmet market needs as well as to grow in the highly competitive global pharmaceutical contract manufacturing market.

Conclusion

Quality, timeliness and cost remain the top three factors in choosing a 2 Contact: Katja Feick Corporate Communications - Europe Frost & Sullivan Tel.: +49 69 7703343 katja.feick@frost.com www.frost.com





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Cerbios-Pharma SA Via Figino 6 CH-6917 Barbengo/Lugano Switzerland

Phone +41 (0) 91 985 63 11 Telefax +41 (0) 91 985 63 25 E-mail info@cerbios.ch

www.cerbios.ch

