

November 23, 2006

Initiating Coverage

FOR PRIVATE CIRCULATION

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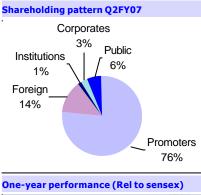
#### Stock details

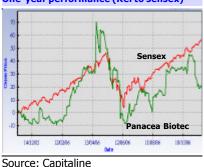
BSE code	: 531349
NSE symbol	: PANACEABIO
Market cap (Rs bn)	: 19.6
Free float (%)	: 24
52-wk Hi/Lo (Rs)	: 531/253
2 Wk Avg volume	: 103,564
Shares o/s (mn)	: 57.1

#### Summary table

<u>(Rs mn)</u>		FY06	FY07E	FY08E				
Revenues		5,419	6,998	10,648				
Growth (%)		65.3	29.1	52.2				
EBITDA		1,199	1,960	3,088				
EBITDA mai	gin (%)	22.1	28.0	29.0				
Net profit		592	1,308	2,108				
Net Margin	(%)	10.9	18.7	19.8				
EPS diluted	(Rs)	10.4	18.4	29.6				
Growth (%)		117.1	77.2	61.1				
DPS (Rs)		1.0	1.0	1.0				
RoE (%)		25.9	25.8	24.9				
RoCE (%)		18.0	23.8	31.1				
EV/Sales (x)		4.3	3.1	2.0				
EV/EBITDA	(x)	19.5	11.0	6.9				
P/E (x)		37.1	18.7	11.6				
P/BV (x)		14.2	3.4	2.7				
FY06/07	Q3	Q4	Q1	Q2				
Net sales	1,100	1,351	2,334	1,743				
EPS (Rs)	0.9	2.0	8.7	8.1				
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Source: Company & Kotak Securities - Private Client Research





## **Panacea Biotec Ltd**

Price: Rs.344 Target Price: Rs.512 **Recommendation: BUY** 

Panacea Biotec Ltd, a research-based pharmaceutical company, has strong growth prospects driven by Vaccines, Proprietary NDDS-based products for international markets, and strategic collaborations. Panacea Biotec's key revenue driver is vaccines which contributed 76% to its total turnover in FY06. The company has well established brand equity in pediatric vaccines, pain management, diabetes management and organ transplantation.

Over the past three years, the company has consolidated its position and has achieved compounded annual growth of 26% in revenues and 41% in net profit. We expect revenue CAGR of 36% and earnings CAGR of 85% between FY06-08E. We feel that current valuations do not capture the future growth potential. We initiate our coverage with buy recommendation with one year target price of Rs.512.

### **Investment Argument**

- □ Institutional Business of Vaccines. The company is the largest supplier of OPV (Oral Polio Vaccine) to UNICEF for their requirements in India. In FY06, the company also started export of OPV to UNICEF for their international requirements and registered export turnover of Rs267mn. In H1FY07, the export of OPV to UNICEF has further grown to Rs723mn thereby indicating large demand of OPV in the international market. In the domestic market also the demand of OPV is expected to increase in the wake of recent increase in the number of polio cases in India which has increased from 66 in 2005 to around 522 in 2006. Polio eradication program is expected to continue till 2010.
- Combination Vaccines would be key growth driver. The company has recently received WHO pre-qualification for EnivacHB (r-Hep B) making it one of the nine companies in the world to get this pre-qualification. The process for WHO pre-qualification of other innovative combination vaccines is in advanced stage. We expect combination vaccines to register US\$5mn sales in FY07E and US\$30mn sales in FY08E on the back of supplies to UNICEF/WHO for their global requirements. Total vaccine business (domestic + exports) is likely to grow at 37% CAGR over FY06-08E.
- JV with Novartis Vaccines to drive growth in domestic vaccine industry. The company has in 2005 launched innovative branded combination vaccines - EnivacHB (r-Hep B), Ecovac4 (Hep B+DTP), Easyfour (Hib+DTP) and Easyfive (Hep B+DTP+Hib) in domestic market through its 50:50 JV with Novartis Vaccines (formerly Chiron Corporation) which is doing very well. In the first year of operations the company has added a turnover of Rs161mn as JV's contribution to its consolidated turnover. The joint venture has already registered a turnover of Rs194mn in H1FY07 as against Rs211mn in FY06.

The market size for these combination vaccines is close to Rs1.25bn and is growing at 25-30% per annum. We expect the JV to capture about 25% market share in FY07E to Rs300mn and 30% in FY08E to Rs450mn of potential revenues.

- Proprietary NDDS-based products for international markets Next big growth driver. At present, the company is exporting its branded formulations to several countries in CIS regions, African Region and SEA region. The export turnover has registered growth of 78% in H1FY07 at Rs134mn as against Rs75mn in H1FY06. According to company, it is in process of registering its existing branded formulations in several countries in these regions and plans to launch Panimun Bioral (Cyclosporin) NDDS formulations in the Brazilian market by FY07-08. We have assumed that Panimun Bioral could yield revenues of US\$10mn in FY08E and US\$15mn in FY09E. Further, formulations exports in other developing countries are expected to yield around US\$10mn in FY08E. Overall, we expect NDDS-based proprietary product exports to contribute around 10% to revenues by FY08E.
- Strategic collaborations for new innovative vaccines to benefit in the medium-to-long-term Panacea Biotec has entered into several strategic collaborations and tie-ups with various global institutions for developing, manufacturing and marketing innovative vaccines for launch over the next few years. These collaborations are of long-term nature and are likely to turn out to be one of the growth drivers in the medium-to-long term.

### Key risks and concerns

- □ Price cut and/or potential slowdown in domestic formulation market.
- Execution risk in innovative combination vaccines and NDDS-based proprietary products.
- Potential delays in regulatory approvals for combination vaccines, Panimun Bioral (Cyclosporin), Sitcom (piles management) and other NDDS-based formulation products.
- Separation risk for collaborations and tie-ups/JVs.

### Valuation and recommendation

Panacea has posted EPS of Rs10.4 in FY06 and we expect EPS to grow by 77% and 61% to Rs18.4 and Rs29.6 in FY07E and FY08E respectively. At current market price Rs344, the stock is trading at 18.7x FY07E and 11.6x FY08E fully diluted earnings. We believe that current valuations do not capture the future growth potential. We initiate our coverage with BUY recommendation with one year target price of Rs.512 per share.

- We have valued Panacea on the basis of the DCF value Rs.512 (assuming WACC 12.5%; Terminal growth 3%) for one year time horizon.
- ❑ At our target price of Rs.512, the stock will be valued at 10.7x FY08E EV/EBIDTA and 17.3x FY08E fully diluted earnings.
- □ Our target price provides an upside of 49% over the period of one year. We recommend **BUY**.

We recommend a BUY on Panacea Biotec with a price target of Rs.512 (upside 49%)

# POLIO – A GLOBAL AND INDIAN SCENARIO

### Background

The World Health Assembly had passed a resolution in 1988 for the WHO to take steps for the global eradication of poliomyelitis. Due to the strong advocacy of the WHO and UNICEF, Government of India (GOI) launched this program countrywide in the year 1995. The National Pulse-Polio Program was started by GOI in the year 1995 with the objective of eradication of the Wild Polio-Virus (WPV) transmission in the country. This program is an integral part of the Global Polio Eradication Initiative (GPEI). A vast sum of financial resources has been devoted by the Government of India on this program.

## **Current status of polio cases**

India, Pakistan, Eve Afghanistan and Nigeria sign are still polio endemic affe

Ever since the global polio eradication program started in 1988, there has been a significant progress in combating the deadly disease. The number of countries affected by polio came down rapidly from about 125 countries in 1998 to 4 countries in 2005. The 4 countries which are still polio endemic are India, Pakistan, Afghanistan & Nigeria. Within India, UP and Bihar are the states with the maximum number of polio cases.

From an estimated 350,000 cases in 1988 worldwide, the total number of cases stands reduced to around 1646 in 2006 (Till November 14, 2006).

For India, there was significant progress in restricting the number of polio cases: from  $\sim 25,000$  cases in 1988 to just 66 in 2005. The table below shows the reduction over the same period:

Number of Polio Cases Reported							
	India	Pakistan	Afganistan				
1988	~25000	-	-				
2000	265	199	27				
2001	268	119	11				
2002	1600	90	10				
2003	225	103	8				
2004	134	53	4				
2005	66	28	9				
2006 (Till 14 Nov)	522	29	29				

Source: WHO

Guidelines to certify polic free region

In 2006 number of polio

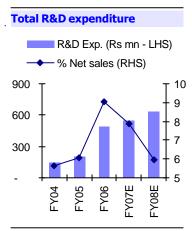
cases in India has increased dramatically

Polio immunization with OPV are expected to continue at least till 2010 OPV are expected to

As per the WHO guidelines, a WHO region can be certified polio free only if does not record any case of polio during a period of consecutive 3 years following the year in which it records a zero case of polio for the first time. India hopes to register zero case for the first time in year 2007, thereafter the if it does not record any case of polio in year 2008, 2009 and 2010 India can achieve its target of becoming a polio free country. This however does not tantamount to stoppage of immunization activities, which may continue until our neighboring countries Pakistan and Afghanistan also become polio free by that time.

WHO plans to achieve global polio eradication by 2008 as per its Global Polio Eradication Initiative, "Strategic Plan 2004-2008". According to this plan, a region can be considered polio free after every country and area in the specified WHO region provides the WHO evidence that there are no indigenous wild polio virus cases for at least three consecutive years. This evidence is then verified by the national certification committees and provided to a regional certification commission, which will decide, based on the data received, if the region can be certified as polio free.

Considering the above facts, polio immunization with oral polio vaccine will continue at least till 2010 and thereafter it will be gradually phased out depending upon polio eradication status in neighboring countries. In post eradication era, the mode of polio immunization will change from oral route at present to injectables. Panacea Biotec is already developing an injectable polio vaccine to support and broaden its revenue streams. Therefore it is believed that OPV business will remain stable for the next 5 years - thereafter could be replaced by the IPV business. Ranks as the 2nd largest vaccine producer and 3rd largest biotech company in India



Source - Company Annual Report, Kotak Securities - Private Client Research

### Strategy to grow business in multiple horizons

### Gearing up for its frist step of big growth in the international markets

## **COMPANY BUSINESS AND STRATEGY**

Panacea Biotec is a research-based pharmaceutical company involved in research, manufacturing and marketing of vaccines, branded pharmaceuticals formulations and biopharmaceuticals. It ranks as the 2nd largest vaccines producer and 3rd largest biotechnology company in India. The company is also amongst the top 50 pharmaceutical companies in India. The product portfolio includes highly innovative prescription products in important therapeutic areas like pain management, diabetes/ cardiovascular, renal disease management, osteoporosis, anti-tubercular, gastrointestinal care products and vaccines.

### **R&D and manufacturing set-up**

Panacea Biotec has 4 R&D centers with over 200 scientists, 10 international product patents valid in more than 60 countries worldwide including, US, UK, Japan, China, Brazil, Australia etc. The company is setting up its 5th R&D center at Navi Mumbai. The Company has pioneered vaccines development and R&D in drug delivery in pharmaceutical formulations. It also has expanded its research activities in the area of Biopharmaceuticals and New Drug Discovery as well as advanced drug delivery.

It has state-of-the-art infrastructure for production of vaccines and pharmaceutical formulations. Its manufacturing facilities comply with the international standards of USFDA, UK-MHRA, SA-MCC as well as WHO-cGMP.

### **Key business strategy**

Panacea Biotec's key business strategy is to enhance its growth prospects in multiple horizons viz. short-term, medium-term and long-term. In the short term, the growth will be driven by (a) launch of NDDS and other new products in domestic market (b) tapping domestic market through marketing JV with Novartis and (c) introduction of Cyclosporin to Latin American markets.

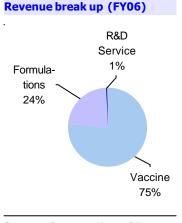
In the medium-to-long term, key growth drivers are (a) launch of thermo stable vaccines and other new vaccines (b) supply of anti-TB, ARV and combination vaccines to WHO/UNICEF (c) launch of branded pharmaceutical formulations in LATAM markets, SEA region, S. Africa and French speaking African region (d) out-licensing /launch of patented products in the developed markets of Europe and US, and (e) potential supply of Anthrax vaccine to US for national stockpiling program.

We believe the company is now gearing up for its first step of big growth in the international markets and will likely derive revenues from Vaccines and proprietary/ technology products.

Future Growth Strategy - Summary					
Horizon	Strategy				
Short-term < 2 years	<ul> <li>Launch of NDDS &amp; Other new products to drive growth in domestic markets</li> </ul>				
	<ul> <li>Tapping domestic vaccine market through marketing JV with Novartia (Chiron)</li> </ul>				
	Introduction of Panimun Bioral (Cyclosporine) to Latin American market				
Medium-term 2-5 years	Launch of Thermostable Vaccines and other new vaccines				
	Supply of Anti-TB and ARV and Combination Vaccines to WHO/UNICE				
	<ul> <li>Introduction of Human Hair Growth Peptide based formulation in global markets</li> </ul>				
	Launch of branded formulations in Latam markets, SEA Region, S. Afric and french speaking African region.				
	Launch of Patented Products in the developed markets of US & Europe				
Long-term > 5 years	<ul> <li>Out-licesing / Launch of Patented Products in the developed markets or US and Europe.</li> </ul>				
	Patential supply of Anthrax Vaccines to US for national stockpiling program.				

Source: Company Presentation

# Key Investment Rationale



Source - Company Annual Report

### Oral Polio/Combination Vaccines would be key growth driver

Panacea Biotec has been focusing on two main streams of health management viz. Prophylactic (prevention) and Therapeutic (treatment). The prophylactic part is represented by the Vaccines portfolio and therapeutic part by the pharmaceutical formulations.

The vaccines business is further divided into two segment viz. Oral Polio Vaccines and Combination Vaccines. In oral polio vaccine, the company has established dominant position in India (with 70% market share) and we expect around 20% annual growth in oral polio vaccine over the next two years.

The company has developed innovative branded combination vaccines - EnivacHB (r-Hep B) Ecovac4 (Hep B+DTP), Easyfour (Hib+DTP) and Easyfive (Hep B+DTP+Hib) in domestic market. It has recently received WHO pre-qualification for EnivacHB (r-Hep B), and other innovative combination vaccines are in advanced stage. It also has several new vaccines and technologies under various stages of development such as thermo-stable vaccines, recombinant anthrax vaccine etc.

We expect combination vaccines to register US\$5mn sales in FY07E and US\$30mn sales in FY08E from exports to Latin America, SE Asia, CIS republican countries Africa through international marketing collaboration. Total vaccine business (domestic + exports) likely to grow at 37% CAGR over FY06-08E.

Critical vaccines under development				
Product	Manufacturing & Analytical Validation	Developmental stages Mfg & Analytical Standardisation	Pre-Clinical	Clinical Trial
RecombinantAnthrax Vaccine	Completed	Completed	Completed	Phase I/IIa in Progress – expected to be completed by FY07
Sabin based Inactivated Polio Vaccine	Completed	Completed	Completed	To be initiated shortly
Hib Conjugate Vaccine	Completed	Completed	Completed	Initiated
Hepatitis A Vaccine	Completed	Completed	To be initiated shortly	
Menigococcal (ACYW135) Conjugate Vaccine	Completed	Completed	To be initiated shortly	
Pneumococcal 7 strain Vaccine	Completed	Completed	To be initiated shortly	
Japanese Encephalitis Vaccine	Completed	In Progress		
Varicella Vaccine, Live Attenuated	In Progress	In Progress		
HexavalentVaccine	In Progress	In Progress		

Source: Company Presentation

### **Recombinant Anthrax Vaccine – a Big Opportunity**

Revenue potential of up to US\$250 mn in FY09E... Potential supply of Recombinant Anthrax vaccine to US Government under national stockpiling program presents US\$1bn opportunity for Panacea Biotec in 2010 (not factored in our estimates). Accordint to the company, it has recently concluded Phase I/IIa clinical trials and expects the final results by end of FY07. We expect the Company will be in a position to file its dossier with USFDA in FY08. As per the latest industry information, the US- FDA's Center for Biologics Evaluation and Research had imposed a clinical hold on the VaxGen Inc.'s forthcoming Phase II trial for its anthrax vaccine candidate and has asked it to resolve the issue by 18.12.06. This latest development increases the probability of Panacea Biotec's potential supply of anthrax vaccine to USG earlier than our estimated timeline. We believe any positive development on this front could result in revenue potential of up to US\$250mn to Panacea Biotec in FY09 (not factored in our estimates).

# JV with Novartis Vaccines to drive growth in domestic vaccine industry

We expect JV to capture about 30% market share in FY08 to Rs.450mn of potential revenue The company has in 2005 launched innovative branded combination vaccines -EnivacHB (r-Hep B), Ecovac4 (Hep B+DTP), Easyfour (Hib+DTP) and Easyfive (Hep B+DTP+Hib) in domestic market through its 50:50 JV with Novartis Vaccines (formerly Chiron Corporation) which is doing very well. In the first year of operations the company has added a turnover of Rs161mn as JV's contribution to its consolidated turnover. The joint venture has already registered standalone turnover of Rs194mn in H1FY07 as against Rs211mn in FY06.

The market size for these combination vaccines is close to Rs1.25bn and is growing at 25-30% per annum. We expect the JV to capture about 25% market share in FY07E to Rs300mn and 30% in FY08E to Rs450mn of potential revenues.

# Strategic collaborations for new innovative vaccines to benefit in the medium-to-long-term

Panacea Biotec has entered into several strategic collaborations and tie-ups with various global institutions for developing, manufacturing and marketing innovative vaccines for launch over the next few years. These collaborations are of long-term nature and are likely to turn out to be one of the growth drivers in the medium-to-long term. The following table summarizes the various collaborations.

Collaborations and Tie-ups	
Partner	Remark
Biotech Consortium India Ltd	10 year in-licensing agreement for development, manufacture and marketing of Anthrax Vaccine starting November 2001.
National Inst. Of Immunology, India	10 year exclusive in-licensing agreement for Japanese Encephalitis Vaccines starting May 2004.
Cambridge Biostability	Development of thermostable vaccines, which eliminates need for cold chain for storage and distribution of vaccines.
National Inst. Of Health, USA	In-licensing technology for development of hormone based formulations for hair growth.
European MNC	Research collaboration to enhance bio-availability of their patented NCE using Panacea Biotec's drug delivery technology; Filed joint patent application and have supplied GMP batches for Phase I & II clinical trials in Europe
Nederlands Vaccin Instituut (NVI)	Panacea Biotec to manufacture and market IPV based combination vaccines for Global Markets (excluding Netherlands, Finland, Norway & Denmark).
National Research Dev. Corp., India	Panacea Biotec to manufacture and market Foot & Mouth disease vaccine developed by India Veterinary Research Institute in India & International markets.
PT. Bio Farma, Indonesia	Panacea Biotech to manufacture amd market Measles vaccnie in Global markets.

Source: Company Presentation

we expect NDDS-based proprietary product exports to contribute around 10% to revenues by FY08E

Gearing up to launch proprietary products in European and US markets begining FY08-09

### **Proprietary NDDS-based products for international markets -Next big growth driver**

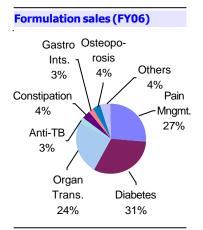
- Exports to Latin American Countries, CIS countries, SEA Region and African Region. At present the company is exporting its branded formulations in several countries in CIS regions, African Region and SEA region. The export turnover has registered growth of 78% in H1FY07 at Rs134mn as against Rs75mn in H1FY06. The company is in process of registering its existing branded formulations in several countries in these regions and plans to launch Panimun Bioral (Cyclosporin) NDDS formulations in the Brazilian market by FY07-08. We have assumed that Panimun Bioral could yield revenues of US\$10mn in FY08E and US\$15mn in FY09E. Further, formulations exports in other developing countries would yield around US\$10mn in FY08E. Overall, we expect NDDS-based proprietary product exports to contribute around 10% to revenues by FY08E.
- Developed Markets of Europe & US. The company has well established track record for NDDS-based formulations in the domestic market and is now set to capitalize this opportunity at global front with 10 international product patent in hand. Panacea is now gearing up to enter into next big league by launching its proprietary NDDS-based products in European and US markets beginning FY08-09. These patented products in the niche areas of pain management, organ transplantation, piles management etc. offers a huge revenue potential beginning FY09-10, which has not been factored in our estimates. The company is in advanced stage of filing its product dossier for two key products with the EU authorities in the next 3-6 months.

NDDS Products	NDDS Products in the Pipeline for US/EU Markets						
Brand	NDDS Details	Launch	Mkt. Size				
Willgo	Nimesulide controlled release formulation	2008	US\$150mn in Europe Potential Mkt. of US\$ 5 Bn				
Panimun Bioral	Cyclosporin formulation based on SEDDS technology	2008	US\$2.2bn globally				
SITCOM (ThankGod)	Euphorbia prostrata extract for Haemorrohoids management	2008	US\$500mn in Europe/US				
XEED	Anti-TB fixed dose combination with innovative Drug Delivery for optimum bioavailability of all drugs	2008	Expected US\$650mn in 2009				
Nimulid Safeinject	Parenteral formulation of Nimusulide based on co-solvant technique	2008	US\$150 mn in Europe				
Nimulid MD	Nimesulide tablets based on fast mouth dissolving technology	2008	US\$150mn in Europe				
Nimulid	Transgel nimesulide transdermal gel	2008	US\$150mn in Europe				
Pangraf	Tacrolimus based formulation for organ transplantation	2008	US\$2.2bn globally				
2 Good	Amoxycillin modified release	2008	US\$300mn				

Source: Company

Patented Products for International Launches (NDDS)						
Panacea Biotec Brands	Therepeutic Areas	Launch*				
Willgo	Pain Management	2008-09				
Sitcom	Piles management	2008-09				
Panimum Bioral	Cyclosporin (Immunosuppressant)	2008-09				
OD PEP	Gastro Intestinal	2008-09				
Pangraf	Organ Transplantation	2008-09				
2 Good	Anti-bactirial	2008-09				
Nimulid Trandermal Gel	Pain Management	2008-09				

Source: Company Presentation; \* UK, France, Italy & Germany in 2008, USA in 2009



Source - Company Annual Report

# Domestic formulations to supplement growth - Grow at 22% CAGR over FY06-08E

The company has established strong brand equity in niche therapeutic areas like pain management, osteoporosis, diabetes, organ transplant, gastro-intestinal and pediatric immunization. Its two main brands, Glizid-M and Nimulid are among the top 200 brands in India (ORG-IMS MAT March-06).

Panacea Biotec's brand building efforts in the domestic market is evident from the fact that over 80% of its domestic formulation sales come from 7 key brands viz. Nimulid, Willgo, Glizid, Glizid-M, Panimun Bioral, PanGraf and Mycept from 3 therapeutic areas. Most importantly, each of these brands rank among Top-2 within their respective therapeutic categories with considerable market share (ORG IMS MAT March-06).

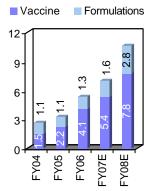
We expect domestic formulation business to grow at 22% CAGR over the next two years driven by ramp-up of sales from products launches in FY06 and new proprietary products launches and line extensions.

Domestic Formulation Sales analysis						
(Rs mn)		FYC	)5	FY06		Growth
Therapeutic area	Major Brands	Sales	(%)	Sales	(%)	(%)
Pain Management	Nimulid, Willgo	322	27	376	27	17
Diabetes Management	Glizid, Glizid M	361	31	436	31	21
Organ Transplantation	Panimum Bioral, PanGraf, Mycept	279	24	343	24	23
Anti-TB	Xeed, Myser	42	4	46	3	10
Constipation	Gush, Livoluk	42	4	49	4	19
Gastro Intestinal	Giro, OD PEP	27	2	40	3	50
Anti-Osteoporosis	Alphadol, Alphadol-C	50	4	54	4	8
Others		57	5	62	4	8
Formulation Sales		1180	100	1406	100	19

Source - Company, Kotak Securities - Private Client Research

## FINANCIALS: EXCELLENT SHOW





Source - Company Annual Report, Kotak Securities - Private Client Research

# Strong revenue growth seen in vaccine business; margins improved steadily

Panacea has recorded a 25.7% (3-year CAGR) sales growth to Rs5.42bn in FY06 from Rs2.73bn in FY03. Net profit growth was even higher at 41% due to improvement in net margin to 10.9% in FY06 from 7.7%. This growth in topline has been achieved mainly due to sharp growth in vaccines business.

### ...40% revenue CAGR over FY06-08E

We expect net sales to grow by 29.1% at Rs7bn and 52.2% at Rs10.6bn in FY07and FY08E respectively. The revenue growth will be driven by (a) launch of NDDS and other new products in domestic market (b) tapping domestic vaccine market through marketing JV with Novartis/Chiron and (c) introduction of Cyclosporin to Latin American markets.

Vaccine business which has contributed 76% to revenue in FY06 will likely to come down to 73% in FY08E to Rs7.8bn to grow at 37.6% CAGR over FY06-08E. While formulation business which has accounted 24% to net sales in FY06, will likely to go up to 27% by FY08E to Rs2.83bn mainly driven by launch of NDDS-based products in international markets.

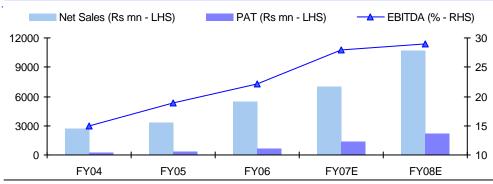
### ....89% earning CAGR over FY06-08E

We expect Panacea to deliver 121% and 61% earnings growth in FY07E and FY08E respectively driven by (a) 40% net sales CAGR during FY06-08E led by strong growth in vaccines in both institutional and private markets, impact of Panimun Bioral (Cyclosporin) and Sitcom (Piles management) exports to Brazil, and export of several other formulation products in developing countries (b) operating margin expansion to 29% in FY08E from 22.1% in FY06 due to the entry into high margin markets (c) tax and excise duty savings on account of commencement of manufacturing facility at Baddi (HP).

Business-wise Revenue Break-up								
(Rs mn)	FY05	FY06	FY07E	FY08E				
Vaccines	2,181	4,122	5,378	7,804				
% of Sales	67	76	77	73				
% Growth Y-o-Y	46	89	30	45				
Formulations	1,093	1,289	1,611	2,833				
% of Sales	33	24	23	27				
% Growth Y-o-Y	-3	18	25	76				
Research & Development	5	8	9	11				
% of Sales	0.1	0.1	0.1	0.1				
% Growth Y-o-Y	-24	60	20	20				
Net Sales	3,279	5,419	6,998	10,648				
% Growth Y-o-Y	25	65	29	52				

Source: Company Annual Report 2006, Kotak Securities - Private Client Research

### **Annual performance trend**



Source: Source: Company, Kotak Securities - Private Client Research

We estimate excise duty

and 25% respectively by

and income tax rate to

decline to around 1%

**FY08E** 

### Commencement of Baddi formulation facility adds to margins...

The company has set up a state-of-the-art formulation plant at Baddi (HP) to manufacture oral finished dosage forms. The facility is spread over 70000 sqm with dedicated blocks for tablets; hard gelatin capsules liquid orals & ointments and is equipped with modern equipments and machineries meeting regulatory standards of the US, Europe, japans and S. African markets.

The company has also successfully set up a new manufacturing facility for Soft Gelatin Capsule at Baddi enabling it to supply the Panimun Bioral and soft gel products in domestic and international markets.

The plants has commenced commercial production and we expect margins to improve going forward as company is enjoying the tax incentives, including a 10 years exemption of sales tax and excise duty and income tax (100% for first 5 years and 30% for next five years). The planned new projects under implementation at Baddi will further add to the tax incentives. Overall, we estimate excise duty and income tax rate to decline to around 1% and 25% respectively by FY08E.

The Company is in process of launching its patented products in the EU/US markets and we expect inspection of its manufacturing facilities by EU/US regulating authorities in FY08.

10

# **H1-FY07** RESULT HIGHLIGHTS

### Growth driven by all round performance...

H1-FY07 results have confirmed the higher performance trajectory which is propelled by strong growth in both vaccine and formulation business. The company has expanded its geographic reach by exporting the branded formulations and vaccines to several countries. The company's joint venture with Novartis Vaccines is also doing well with profitable growth and now commands around 25% market share in the combination vaccines market.

During the first half of FY07, vaccines business has recorded 47% growth at Rs3.2bn from Rs2.2bn in corresponding period of last year, mainly due to higher volume in OPV and increased supply of combination vaccine to Novartis JV. The formulation business has registered a growth of 19% to Rs840mn against Rs706mn in H1-FY06 led by expansion in geographic coverage.

Operating profit grew by sharp 84.6% to Rs1428mn from Rs773mn due to increase in sales from high margin products and saving in other expenses relative to sales. Net profit grew by 117% to Rs963mn from Rs443mn in H1-FY06 mainly due to higher other income and expansion in operating margin.

## **K**EY RISKS AND CONCERNS

- Price cut and/or potential slowdown in domestic formulation market and risk of failure in NDDS research initiatives.
- Timely execution risk Panacea is working on several new combination vaccines and proprietary products. Any delay in execution of new business segment could roll-over the revenue to farther period.
- Potential delays in regulatory approvals for combination vaccines, Panimun Bioral (Cyclosporin), Sitcom (piles management) and other NDDS-based formulation products.
- Separation risk The Company has entered into several collaborations and tieups/JVs. Pre-mature break-up of these long-term relationship would impact the revenue directly.
- The company has raised US\$100 by way of FCCB in two tranches of US\$50mn each in Feb'06. The Tranche-1 of US\$50mn has been fully converted into equity at Rs276.30 per share and from Tranche-2 of US\$50mn, which has a conversion price of Rs357.57 per share, 10% has been converted into equity during Oct-06.

11

## **VALUATIONS AND RECOMMENDATION**

Panacea has posted EPS of Rs10.4 in FY06 and we expect EPS to grow by 77% and 61% to Rs18.4 and Rs29.6 in FY07E and FY08E respectively. At current market price Rs344, the stock is trading at 18.7x FY07E and 11.6x FY08E fully diluted earnings. We believe that current valuations do not capture the future growth potential. We initiate our coverage with **BUY** recommendation with one year target price of Rs.513 per share.

## **DCF valuation**

Free Cash Flow to Firm (FCFF)								
	FY05	FY06	FY07E	<b>FY08E</b>	FY09E	FY10E	FY11E	
РАТ	273	592	1,308	2,108	2,445	2,957	3,471	
Add: Depreciation	140	143	257	384	471	481	451	
Add: Interest (1-tax rate)	95	95	107	18	18	18	18	
Less: Capex	439	1,135	1,000	800	600	200	200	
Less: Change in NWC	283	(602)	190	998	440	506	582	
Less: Investments	(0.7)	-	-	-	-	-	-	
FCFF	(214)	298	482	712	1,894	2,749	3,157	
Years from now	-	-	-	1.00	2.00	3.00	4.00	
Discounted Value		298	482	633	1,495	1,928	1,968	

Source : Kotak Securities - Private Client Research

### **Sensitivity Analysis**

	WACC (%)				
Terminal growth (%)	11.5	12.0	12.5	13.0	13.5
2%	545	515	487	463	440
3%	581	546	512	487	462
4%	628	586	549	516	487
5%	688	637	592	553	519
6%	770	704	646	600	559

Source: Kotak Securities - Private Client Research

- We have valued Panacea on the basis of the DCF value Rs.512 (assuming WACC 12.5%; Terminal growth 3%) for one year time horizon.
- At our target price of Rs.512, the stock will be valued at 10.7x FY08E EV/EBIDTA and 17.3x FY08E fully diluted earnings.
- Our target price provides an upside of 49% over the period of one year. We recommend **BUY**.

DCF valuation per share (Rs mn)			
Terminal Value	18,700		
Total FCFF	33,913		
Net Debt (adjusted for cash)	(3,053)		
Shareholders' Value	36,965		
Value per share (Rs)	512		

Source: Kotak Securities - Private Client Research

### Assumptions

Growth (FY12E-16E) (%)	8
Terminal Growth (%)	3
WACC (%)	12.5
Equity (M Cap) (Rs mn)	19,642
Debt (Rs mn)	141
Cost of debt (%)	6.0
Risk free rate (%)	7.0
Risk premium (%)	7.0
Beta (x)	0.8
Cost of equity (%)	12.6

### We recommend a BUY on Panacea Biotec with a price target of Rs.512 (upside 49%)

12

Profit and loss statement (Rs mn)					
Year end March	FY06	<b>FY07E</b>	FY08E	FY09E	
Revenues	5,419	6,998	10,648	12,246	
% Change Y-o-Y	65.3	29.1	52.2	15.0	
Total Expenditure	4,220	5,039	7,560	8,572	
EBITDA	1,199	1,960	3,088	3,674	
% Change Y-o-Y	93.1	63.5	57.6	19.0	
Other Income	72	300	130	80	
Depreciation	143	257	384	471	
EBIT	1,128	2,002	2,834	3,283	
Interest	133	133	23	23	
Profit before tax	987	1,869	2,811	3,260	
Тах	394	561	703	815	
as % of PBT	40.0	30.0	25.0	25.0	
Net Income	592	1,308	2,108	2,445	
% Change Y-o-Y	117.1	120.8	61.1	16.0	
Shares outstanding (Mn)	57.2	71.3	71.3	71.3	
EPS - Fully diluted (Rs)	10.4	18.4	29.6	34.3	
CEPS (Rs)	13.0	22.0	35.0	40.9	
BVPS (Rs)	27	101	130	163	
DPS (Rs)	1.0	1.0	1.0	1.0	

**FY06** 

592

260

(602)

1,454

1,135

4,251

(144)

4,349

4,449

100

112

3,995 (1,818)

(1, 135)

**FY07E** 

1,308

1,562

1,000

(1,000)

(5,722)

104

4.008

(1,256)

4,449

3,193

444

190

**FY08E** 

2,108

1,635

(800)

525

998

800

81

(450)

(531)

3,193

3,497

304

Balance sheet (Rs mn	)			
Year end March	FY06	FY07E	FY08E	FY09E
Shareholder's Equity	57	71	71	71
Reserves	1,495	7,148	9,175	11,539
Total Networth	1,553	7,219	9,246	11,610
Secured Loans	1,159	1	1	1
Unsecured Loans	4,703	140	140	140
Total Loans	5,862	141	141	141
Net deferred tax liability	247	434	574	737
Total Liability	8,566	8,243	9,961	12,488
Net Fixed Assets	2,362	3,104	3,520	3,650
Inventory	1,817	1,771	2,684	3,087
Debtors	767	873	1,324	1,522
Cash & Bank Balance	4,449	3,193	3,497	5,455
Loans & Advances	701	708	1,074	1,235
Current Liabilities	1,030	1,062	1,610	1,852
Provisions	509	354	537	617
Net Current Assets	6,194	5,129	6,431	8,829
Total Assets	8,566	8,243	9,961	12,488

	Ratio analysis				
FY09E	Year end March	FY06	FY07E	FY08E	<b>FY09E</b>
2,445 634 440 <b>2,639</b> 600 (600) - - - - - - - - - - - - - - - - - -	Year end MarchDebt-Equity RatioCurrent RatioInventory TurnoverDebtors TurnoverFixed Assets TurnoverInterest coverage (x)EBIDTA Margin (%)PAT Margin (%)RoE (%)RoCE (%)EV/Sales (x)EV/ EBITDA (x)	2.4 5.0 2.3 7.1 2.9 8.4 22.1 10.9 25.9 18.0 4.3 19.5	0.0 4.6 2.8 8.6 2.6 15.0 28.0 18.7 25.8 23.8 3.1 11.0	0.0 4.0 3.4 9.8 2.7 125.1 29.0 19.8 24.9 31.1 2.0 6.9	0.0 4.6 3.0 8.7 2.5 144.9 30.0 20.0 23.4 29.2 1.6 5.2
	Price to earnings (x) Price to book value (x)	37.1 14.2	18.7 3.4	11.6 2.7	10.0 2.1
	Price to cash earnings (x)	29.7	15.7	9.8	8.4

Source: Company, Kotak Securities - Private Client Research

Cash flow statement (Rs mn)

Year end March

Depreciation

Change in NWC

Issue of capital

Change in Cash

Opening Cash

**Closing Cash** 

**Operating Cash Flow** 

**Investment Cash Flow** 

**Financial Cash Flow** 

PAT

Capex

Loans

Dividend

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