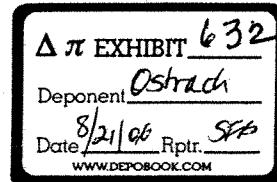


Test Case (Gen. Probe)

<u>US Market (Kits)</u>	<u>91</u>	<u>92</u>	<u>93</u>	<u>94</u>	<u>95</u>	<u>96</u>	<u>97</u>	<u>98</u>	<u>99</u>	<u>00</u>	<u>01</u>
Sexually Trans. Dis.	-	-	-	-	-	-	-	-	-	-	-
Retroviruses	-	-	-	-	-	-	-	-	-	-	-
Hepatitis	-	-	-	-	-	-	-	-	-	-	-
Other Inf. Dis.	-	-	-	-	-	-	-	-	-	-	-
Total	10	25	60	100	155	210	255	310	375	430	490
<u>Ex-US Market (Kits)</u>	<u>90</u>	<u>91</u>	<u>92</u>	<u>93</u>	<u>94</u>	<u>95</u>	<u>96</u>	<u>97</u>	<u>98</u>	<u>99</u>	<u>00</u>
Sexually Trans. Dis.	-	-	-	-	-	-	-	-	-	-	-
Retroviruses	-	-	-	-	-	-	-	-	-	-	-
Hepatitis	-	-	-	-	-	-	-	-	-	-	-
Other Inf. Dis.	-	-	-	-	-	-	-	-	-	-	-
Total	5	5	10	20	30	40	50	60	70	80	90
Total	20	27	40	50	60	70	80	90	100	110	120
Roche %	90	90	90	90	90	90	90	90	90	90	90
Roche \$ (ex US)	0	0	0	0	0	0	0	0	0	0	0
Roche \$ (US)	0	0	0	0	0	0	0	0	0	0	0
Roche \$ (total)	0	0	0	0	0	0	0	0	0	0	0

ATTORNEYS' EYES ONLY -  
RESTRICTED

RMS 78280

US Market (Kits)

- Sexually Trans. Dis.
- Retroviruses
- Hepatitis
- Other Inf. Dis.
- Total

Ex-US Market (Kits)

- Sexually Trans. Dis.
- Retroviruses
- Hepatitis
- Other Inf. Dis.
- Total
- Roche %
- Roche \$ (ex US)
- Roche \$ (US)
- Roche \$ (total)

RBL (services)

- Inf. Dis.
- Genetic
- Organic
- Forensic

Base Case (\$ M.D.)

<u>US Market (Kits)</u>	<u>89</u>	<u>90</u>	<u>91</u>	<u>92</u>	<u>93</u>	<u>94</u>	<u>95</u>	<u>96</u>	<u>97</u>	<u>98</u>	<u>99</u>	<u>00</u>
Sexually Trans. Dis.	1	2	3	6	10	10	80	95	105	110	110	110
Retro viruses	-	-	-	-	-	-	50	85	95	100	100	100
Hepatitis	-	-	-	-	-	15	40	75	85	90	90	90
Other Inf. Dis.	4	5	6	7	10	20	40	70	90	110	120	130
Total												
Ex-US Market (kits)	5	7	9	13	20	30	95	210	325	400	410	420
<u>Sexually Trans. Dis.</u>	-	-	-	-	-	-	10	90	180	105	110	110
<u>Retro viruses</u>	-	-	-	-	-	-	20	50	100	140	160	180
<u>Hepatitis</u>	-	-	-	-	-	-	20	50	100	140	160	180
<u>Other Inf. Dis.</u>	-	-	-	-	-	-	10	20	40	80	120	160
Total												
<u>Rocke %</u>	-	-	-	-	-	-	50	90	85	80	75	70
<u>Rocke # (ex-US)</u>	0	0	0	0	0	0	20	70	165	305	390	440
<u>Rocke # (US)</u>	0	0	0	0	0	0	5	10	95	175	240	360
<u>Rocke # (Total)</u>	0	0	0	0	0	0	25	80	250	480	650	720
<u>RBL (Services)</u>												
<u>Inf Dis</u>												
<u>Genetic</u>												
<u>Oncogene</u>												
<u>Forensic</u>												

ATTORNEYS' EYES ONLY-  
RESTRICTED

RMS 78281



Gen-Probe Scenarios (\$M, 1/1/01)		91	92	93	94	95	96	97	98	99	00	01
US		5	10	85	175	305	390	440	485	290	295	300
X-US		0	20	70	165	305	390	440	490	190	515	540
Total		0	25	80	250	480	650	720	730	810	840	840
US		20	55	85	180	260	320	370	420	460	520	560
X-US		0	20	60	300	420	530	580	600	630	660	660
Total		0	20	80	385	600	720	830	845	905	920	910
US		0	0	0	0	0	0	0	0	0	0	0
X-US		0	0	0	0	0	0	0	0	0	0	0
Total		0	0	0	0	0	0	0	0	0	0	0
US		0	0	0	0	0	0	0	0	0	0	0
X-US		0	0	0	0	0	0	0	0	0	0	0
Total		0	0	0	0	0	0	0	0	0	0	0

ATTORNEYS' EYES ONLY-  
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## Base Case (1)

US    X-US    Total

## Test Case (2)

US    X-US    Total

## Competitive Case (3)

US    X-US    Total

RMS 78283

- (1) neither Roche nor Kodak acquires Gen-Probe technology  
 (2) Roche acquires Gen-Probe technology  
 (3) Kodak acquires Gen-Probe technology

## Gen-Probe Scenarios

(\$M, 1/1/01)

	US	X-US	Total	US	X-US	Total	US	X-US	Total	US	X-US	Total
Base Case <sup>(1)</sup>	0	0	0	90	91	92	93	94	95	96	97	98
US	0	0	0	5	10	15	175	210	285	290	295	340
X-US	0	0	0	20	70	165	305	390	440	490	555	590
Total	0	0	0	25	80	180	320	450	650	720	780	840
Test Case <sup>(2)</sup>												
US	0	0	0	30	55	85	180	260	320	330	340	390
X-US	0	0	0	60	160	300	420	460	530	580	590	600
Total	0	0	0	90	215	385	600	720	830	875	920	940
Competitive Case <sup>(3)</sup>												
US	0	0	0	0	3	5	30	70	110	150	160	170
X-US	0	0	0	0	7	35	90	150	200	220	230	260
Total	0	0	0	0	10	40	120	220	330	380	400	430

ATTORNEYS' EYES ONLY-  
RESTRICTEDBase Case<sup>(1)</sup>US  
X-US  
TotalTest Case<sup>(2)</sup>US  
X-US  
TotalCompetitive Case<sup>(3)</sup>

RMS 78284

- (1) neither Roche nor Kodak acquires Gen-Probe technology
- (2) Roche acquires Gen-Probe technology
- (3) Kodak acquires Gen-Probe technology

Est. U.S. Market  
\$ (million)

	<u>92</u>	<u>93</u>	<u>94</u>	<u>95</u>	<u>96</u>	<u>97</u>	<u>98</u>	<u>99</u>	<u>00</u>	<u>01</u>
Sexually Trans. Dis.	13	42	80	105	105	105	105	66	52	39
Retroviruses	-	20	50	85	95	95	90	60	30	20
Hepatitis	-	13	33	65	75	75	75	50	25	13
Other Int. Dis.	10	20	40	70	80	90	100	80	50	40
Genetic Disorders	-	-	5	10	20	45	80	100	100	100
Cancer	-	-	-	2	4	10	20	30	10	5
Tissue Typing	-	2	4	6	10	20	25	30	30	30
Total	23	97	212	344	390	441	475	416	327	292

Est RDS Sales  
\$ (Million)

	Case #1									
	92	93	94	95	96	97	98	99	00	
STD	3	11	20	27	27	27	21	17	13	1
Retroviruses	-	5	13	21	24	24	23	15	8	:
Hepatitis	-	3	8	16	19	19	19	13	6	:
Other Inf. Dis.	-	-	3	5	10	18	20	23	25	2
Genetic Disorders	-	-	1	3	5	11	20	25	25	2
Cancer	-	-	-	1	2	3	5	8	10	1
Tissue Typing	-	-	1	2	3	5	6	7	7	
Total	3	19	46	75	90	107	114	108	94	8

Assumptions:

PCR licensed to Roche, Kodak and duPont

LCR licensed to Abbott

Case #2

	<u>92</u>	<u>93</u>	<u>94</u>	<u>95</u>	<u>96</u>	<u>97</u>	<u>98</u>	<u>99</u>	<u>00</u>	<u>c</u>
S.T.D.	4	14	26	35	35	35	28	22	17	10
Retroviruses	-	7	17	28	31	31	30	20	10	5
Hepatitis	-	1	11	21	25	25	25	17	8	4
Other Inf. Dis.	-	-	1	7	13	23	26	30	33	25
Genetic Disorders	-	-	2	4	7	15	26	33	33	3:
Cancer	-	-	-	1	2	3	7	10	13	17
Tissue Typing	-	-	1	2	3	7	9	10	10	10
Total	4	25	61	98	116	139	151	142	124	110

Assumptions:

PCR licensed to Roche and Kodak only  
 LCR licensed to Abbott

Case # 3

	<u>92</u>	<u>93</u>	<u>94</u>	<u>95</u>	<u>96</u>	<u>97</u>	<u>98</u>	<u>99</u>	<u>00</u>	<u>1</u>
S.T.D.	3	8	16	21	21	21	17	13	10	8
Retroviruses	-	3	8	13	14	14	14	9	5	3
Hepatitis	-	2	5	10	11	11	11	8	4	2
Other Inf. Dis.	-	-	3	5	10	18	20	23	25	2
Genetic Disorders	-	-	1	3	5	11	20	25	25	2
Cancer	-	-	-	1	2	3	5	8	10	1
Tissue Typing	-	-	1	2	3	5	6	7	7	
Total	3	13	34	55	66	83	93	93	86	71

Assumptions:

PCR licensed to Roche, Kodak and Abbott  
 LCR licensed to duPont

## RDS Product Menu

HIV I

HTLV I

HBV

HPV (groups?)

Blood cultures (25mm, US incl spirals)

- + - bacteria ?

- bacteria vs virus ?

- gm + - ?

Borrelia

Mycobacterium tub.

Chlamydia

GC

HSV ?

Diarrhea ?

- Rotavirus
- ETC E
- Sal
- Shig

Respiratory ?

- RSV
- Flu
- Adeno

EBV ?

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CMV ?

Pneumocystis ?

## Gen-Probe Plan

1. HPA - Based
2. AE label
3. Simple sample pre-treatment

## Presumed system

1<sup>st</sup> gen (91-92)

1. Diluter for sample prep.
2. Rack cycler
3. Luminometer

2<sup>nd</sup> gen (93 →)

1. Integrated automation
- 30+30 " 1½ hr (batch)

## Probable assays

Est Launch

	<u>US</u>	<u>ex US</u>
HBV (existing)	93	91
HIV-1 (existing)	93	91
HTLV-1	93	91
Chlamydia (existing + GP)	91	91
GC (GP)	91	91
HPV (existing)	91	91
Blood culture	91	91
TB (GP)	91	91
Legionella (GP)	91	91
Mycoplasma (GP)	91	91

## Base Plan

1. MTP-based
2. ? label (Fluor. or Enz.)
3. ? Sample pre-treatment

## Presumed System

1. Off-line sample prep 30 min
2. MTP cycler (4 plates) 60 min + 60 min
3. MTP Washer total = 2½ hr
4. MTP Reader (Fluor. or Enz.)

## Probable assays

	Est	launched
	US	ex US
HIV 1 (existing)	95	93
HTLV 1	95	93
HBV	95	93
Chlamydia (existing)	93	93
GC	93	93
HPV (existing)	93	93
Blood culture	93	93
TB	93	93

KTS

	4F	1	2	3	4	5
Retroviruses	4.5	17.5	26.0	26.0	26.0	
Hepatitis	3.5	19.0	21.0	21.0	21.0	
STD	6.5	13.0	26.0	40.0	40.0	
Bacteremia	-	2.5	4.5	9.0	13.5	
Misc.	-	-	1.0	2.0	1.0	
Total	19.5	47.0	78.5	98.0	104.5	

Total Mkt estimateRetrovirus -Blood screening:

$$29 \text{ mil tests} @ \$2.00 = \$58 \text{ mil}$$

Therapy Monitoring:

$$1.2 \text{ mil AIDS/ARC } \overset{\text{HIV}}{\text{new}} @ 4 \times \$2.00 = 9.6$$

$$\overset{\text{new}}{30K} \text{ new pts/yr (avg)} @ 4 \times \$2.00 = 0.48$$

Diagnosis:

$$10 \text{ mil tests} @ \$2.00 = \underline{20 \text{ mil}}$$

$$\text{Total Retroviruses} = \$88 \text{ mil}$$

Hepatitis -Blood screening:

$$29 \text{ mil tests} @ \$2.00 = \$58 \text{ mil}$$

Therapy monitoring:

~~$$+ mil carriers @ 4 \times \$2.00 = 8$$~~

$$0.2 \text{ new case } @ 4 \times \$2.00 = 1.6$$

Diagnosis:

$$5 \text{ mil tests} @ \$2.00 = \underline{10}$$

$$\text{Total Hepatitis} = \$170 \text{ mil}$$

STD -

Chlamydia:

15 ml tests @ \$3.00 = \$45 ml

Gonorrhea:

5 ml tests @ \$2.00 = 10

HSV:

5 ml HSV @ \$3.00 = 15

HPV:

20 ml PAPs @ \$3.00 = 60

PPNG:

1 ml G.C. pos @ \$2.00 = 12

Total STD \$ 132

Blood Cultures:

15 ml cultures @ \$3.00 / qual screen \$ 45 ml

Misc (TB, Hemophylus, Diarrhea):

10 ml @ \$2.00 \$ 20 ml

Total \$ 132 + \$ 355 ml

1987 : NO. OF TESTS

(mm)

RETROVIRUSES

TOTAL

39.4

BLOOD SCREENING

29.1

DIAGNOSTIC

10.3

Therapy - Monitoring :

CUMULATIVE TOTAL NO. OF AIDS CASES IN THE U.S. 58,537

NO. OF NEW CASES IN 1987 20,000.

NO. OF PATIENTS CURRENTLY ALIVE 25,800

NO. OF PATIENTS WITH ARC 400,000

PROJECTED # OF HIV PTS. BY 1991 270,000

NO. OF PEOPLE CURRENTLY INFECTED WITH HIV 1,500,000

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RMS 78295

1987 TEST VOL.

(MM) -

Hepatitis      TOTAL      102.4Blood Screening :      70.6Diagnostic      31.8TherapyNo. OF NEW 'HEP A' CASES /YR      22,000.No. OF NEW 'HEP B' CASES /YR      200,000No. OF CHRONIC HBV CARRIERS      1,000,000

1987: No. Of Tests

<u>STDs</u>	<u>(MM)</u>	<u>% AAG</u>
PAP SMEARS	26.0	6.0%
CHLAMYDIA	10.0	22.1%
GONORRHEA	32.0	10.1%
No. Of GC CASES/YR 3,000,000.		

Herpes - 4.1 15.0%.

1987 NO. OF TESTS

(MM)

7 AAC

No. of Blood cultures /yr. 15.3  
i.e. # of tests for SEPTICEMIA

Mycobacteria culture 5.5

Hactmophilus culture 0.4

Rotaviruses

- EIA 0.1

- Clumping/aggregation 0.03