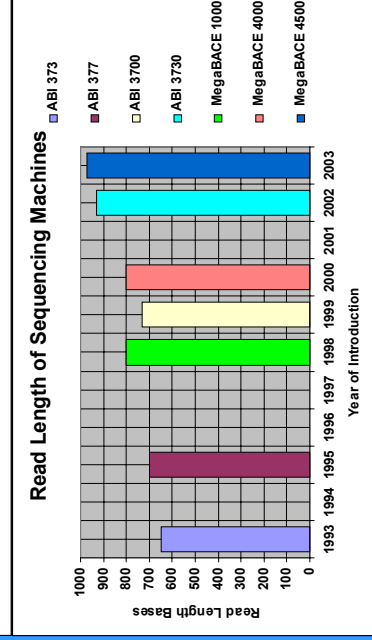
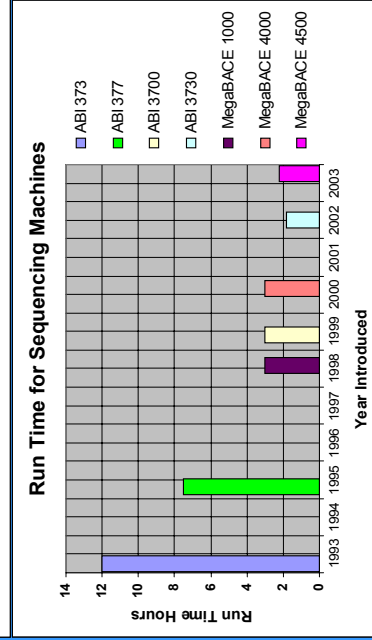
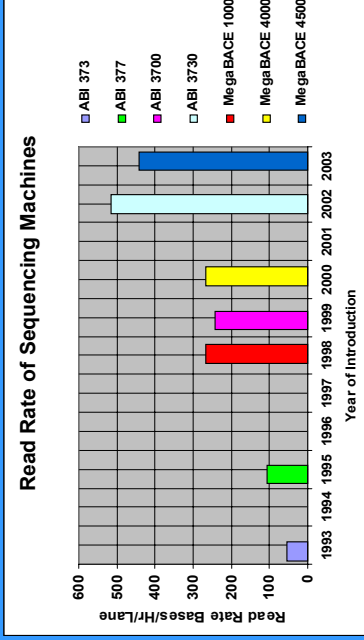
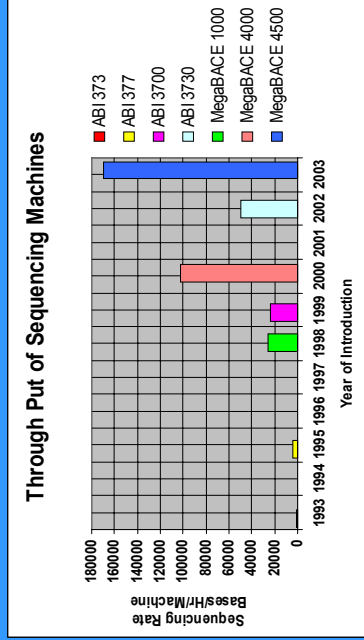


Poly Net Inc.

**Manufactures and Develops
Replaceable Polymer Solutions for
Electrophoretic Separations of
Bio-Molecules**

Improvements in Electrophoretic Sequencing since 1998

Time of Run about 3X Faster
 Read Rate/Lane about 2X Faster
 Throughput/Machine about 7X Greater
Read Length – Increased Approximately 30%



Polymer Plus by Itself

Increases
Read Length
50%
Compared to
1998 Technology

DNA Sequencing Demonstrates Polymer Plus' Power to Improve Separation Performance

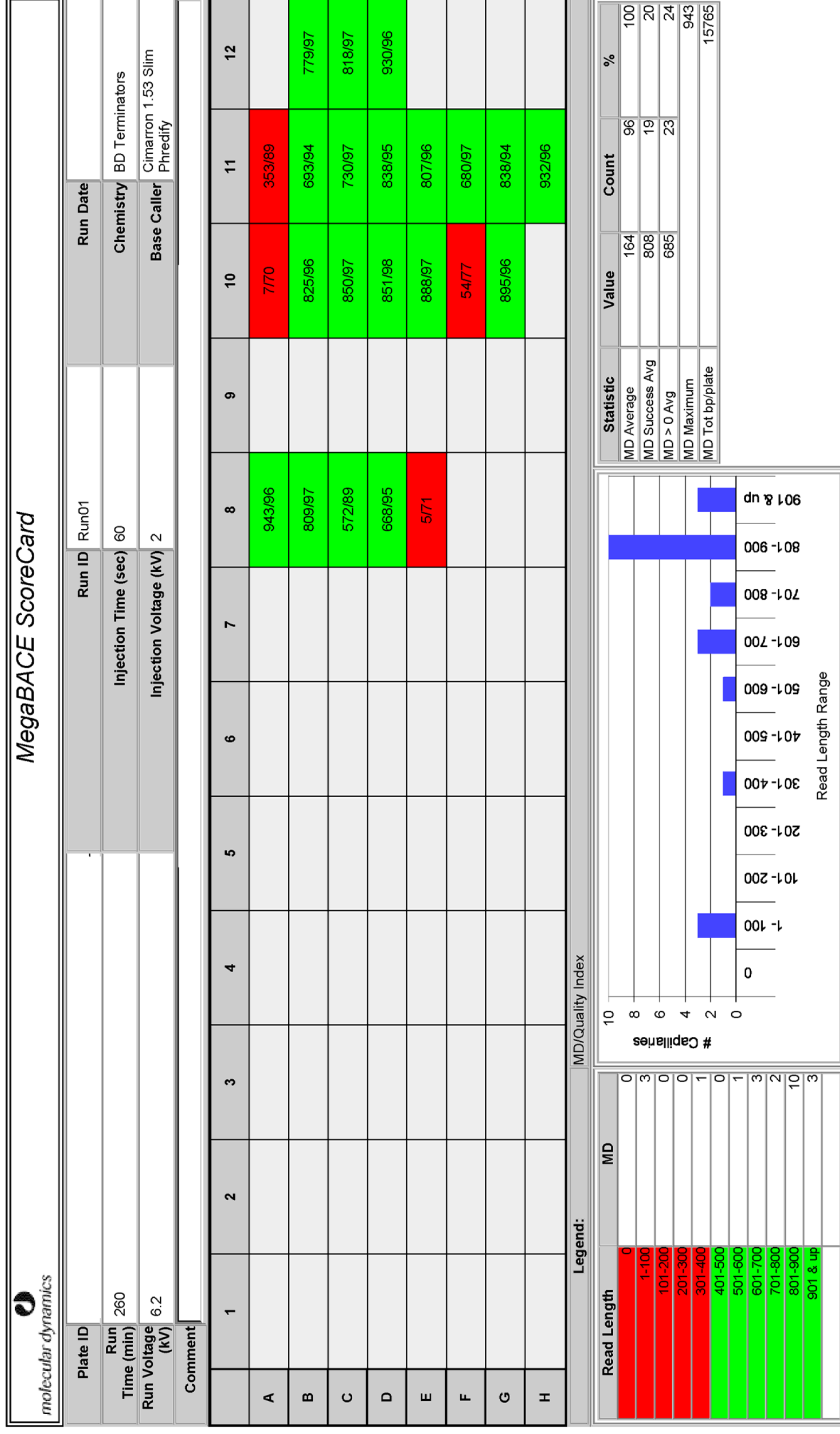
- Polymer Plus [Current Performance]
 - 1200 Bases
 - 3 X Sensitivity
 - 25 % Increase in Throughput
 - 30 % Lower Sequencing Cost
- Long Read Matrix™
 - 800 Bases Read Length
 - 1X Sensitivity
 - Standard Throughput
 - Current Sequencing Cost

Validation of Polymer Plus for DNA Sequencing


Amersham's Matrix vs. Poly Net's Matrix

- Test Conditions
 - MegaBACE™ 1000 Machine
 - ABI Terminator Chemistry v1.1
 - Sample- pGem-3Zf+ Puc/M13 Primer
 - Pooled Sample
 - Ethanol Precipitation
 - 44 °C Running Temperature
 - 6 Molar Urea
 - 6.5 kV Running Voltage
 - Run Time 250 Minutes to 1200++ Bases
 - Base Caller Cimarron 1.53

Amersham Success Average 808 Bases



Polymer Plus Success Average 1217 Bases



MegaBACE ScoreCard

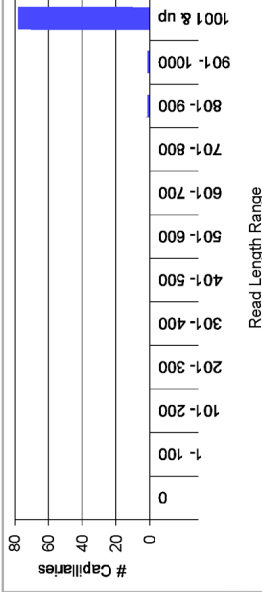
Plate ID	Run ID	Run Date	Run ID	Run Date
	Run01	Run01		
Run Time (min)	260	Injection Time (sec)	30	BD Terminators
Run Voltage (kV)	6.5	Injection Voltage (kV)	2	Cimarron 1.53 Slim Pintedify
Comment				

	1	2	3	4	5	6	7	8	9	10	11	12
A			1305/94	1268/96	1160/97	1003/97	1166/96	1103/95	1115/95	1218/96	1140/95	1259/93
B			1185/96	1170/95	1410/95	1202/96	1262/95	1248/95	1333/95	1307/96	1201/93	1122/96
C			1070/94	940/95	1207/96	1249/96	1146/97	1037/93	1173/96	1102/95	1186/95	1272/95
D			1195/96	1101/96	1184/98	1294/96	1239/97	1107/90	832/93	1204/97	1278/96	1322/97
E			1038/96	1318/96	1326/96	1152/96	1156/96	1223/95	1251/93	1184/98	1161/95	1316/94
F			1296/95	1302/95	1002/96	1177/93	1132/96	1144/95	1122/96	1062/94	1215/92	1192/96
G			1050/95	1107/97	1200/97	1239/96	1363/95	1209/95	1222/97	1429/95	1341/95	1304/94
H			1248/95	1148/98	1197/96	1193/94	1330/95	1181/93	1378/95	1198/96	1165/97	1175/96

Legend:

Read Length	MD
0	0
1-100	0
101-200	0
201-300	0
301-400	0
401-500	0
501-600	0
601-700	0
701-800	0
801-900	1
901-1000	1
1001 & up	78

MD/Quality Index



Statistic	Value	Count	%
MD Average	997	96	100
MD Success Avg	1217	73	76
MD > 0 Avg	1197	80	83
MD Maximum			1429
MD Tot bp/plate			95756

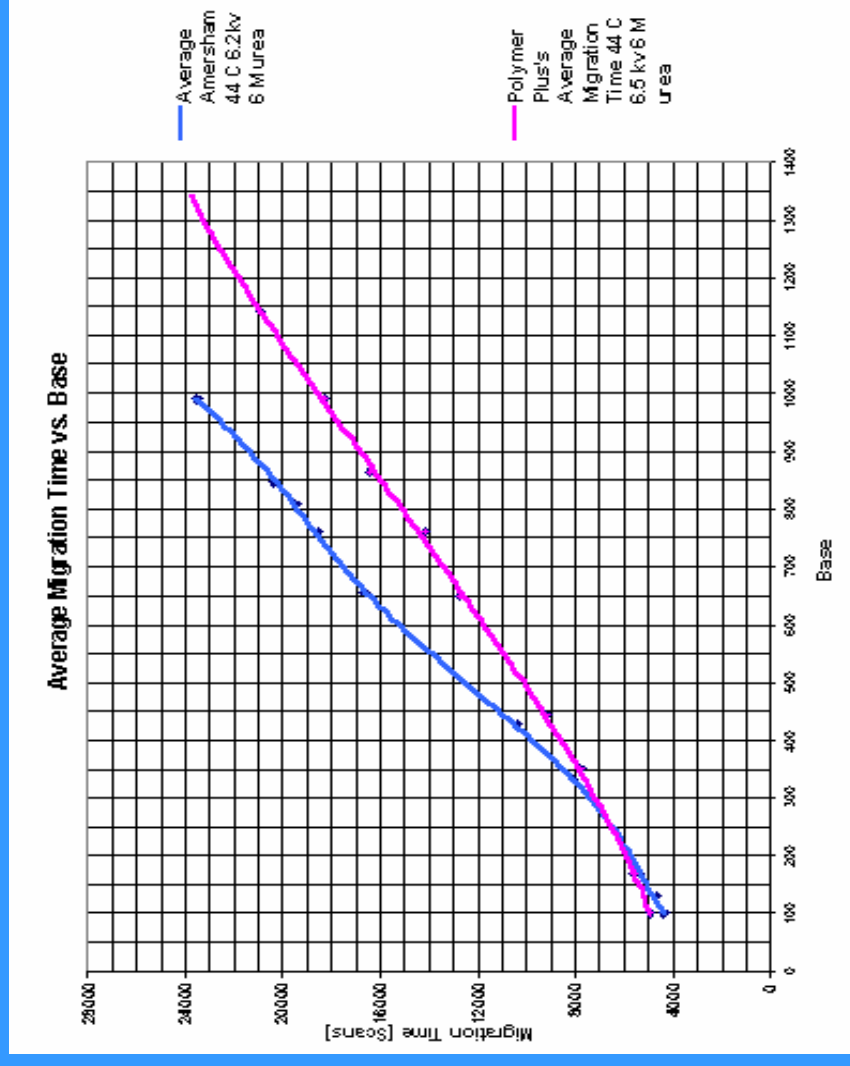
Average Migration Time Polymer Plus vs. Amersham Matrix

Migration Time
to Base 1000

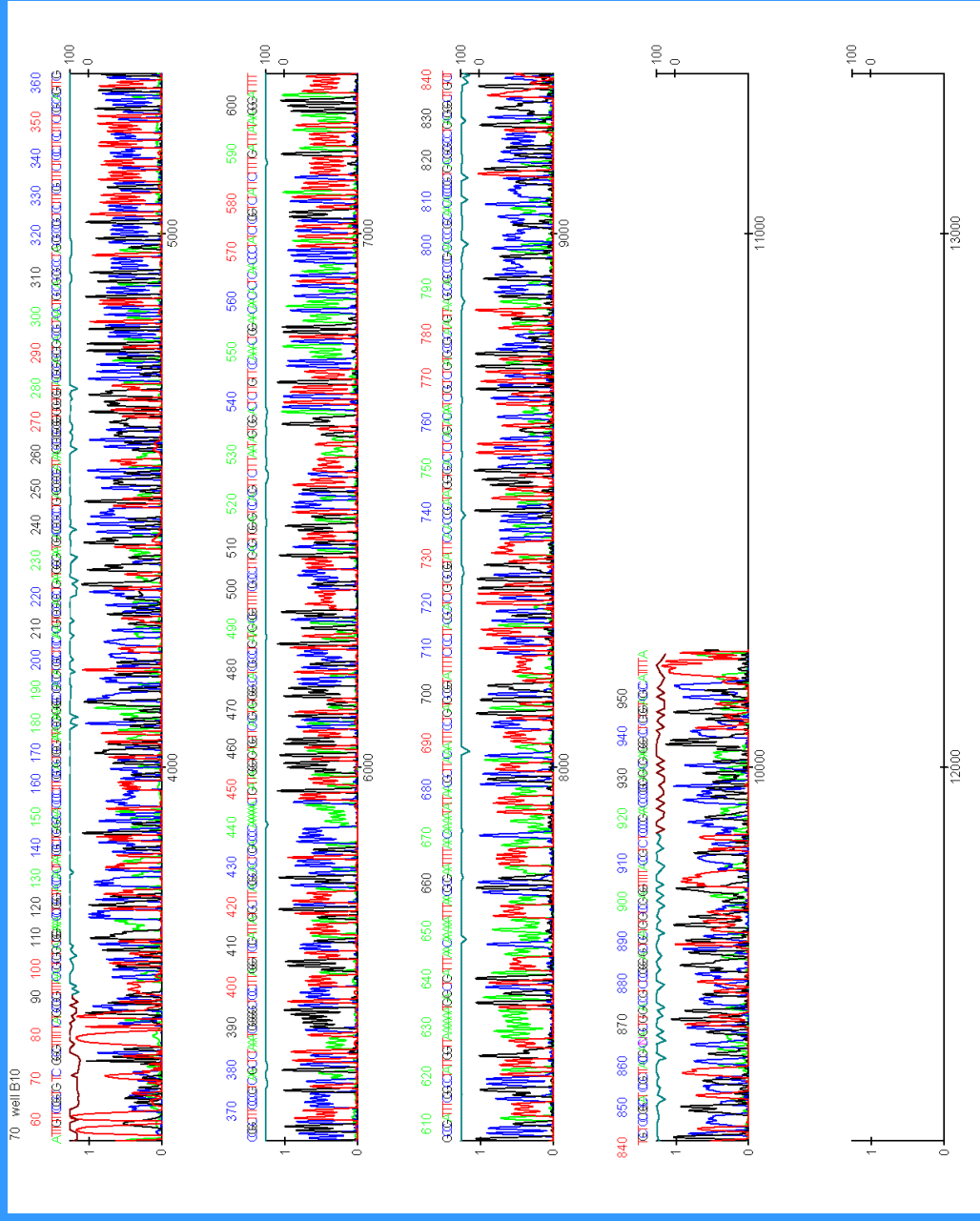
Polymer Plus = 176 Minutes

Amersham = 224 Minutes

10 Capillary Average



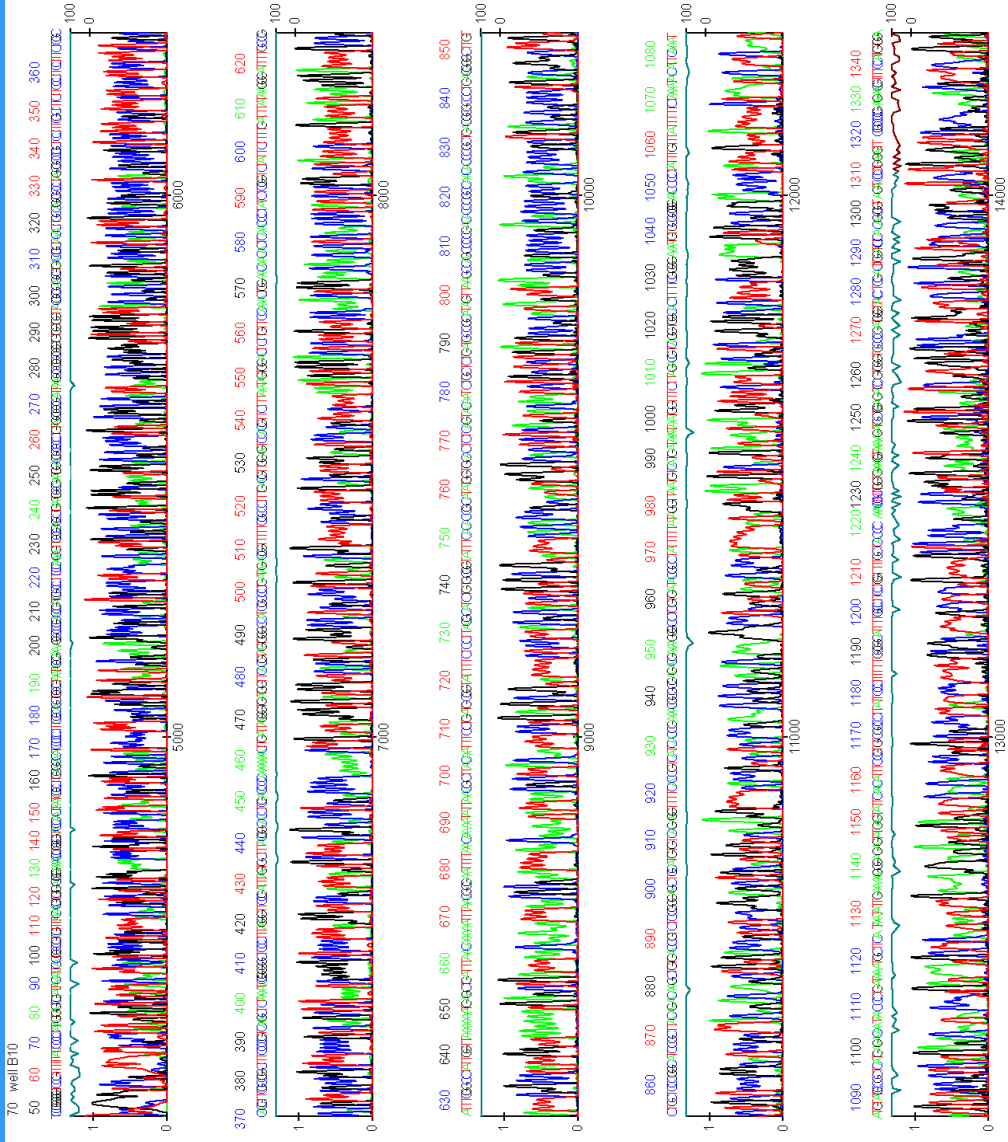
Typical Amersham Separation



Readlength
810 Bases

Dye Front
Degrades
First 90
Bases

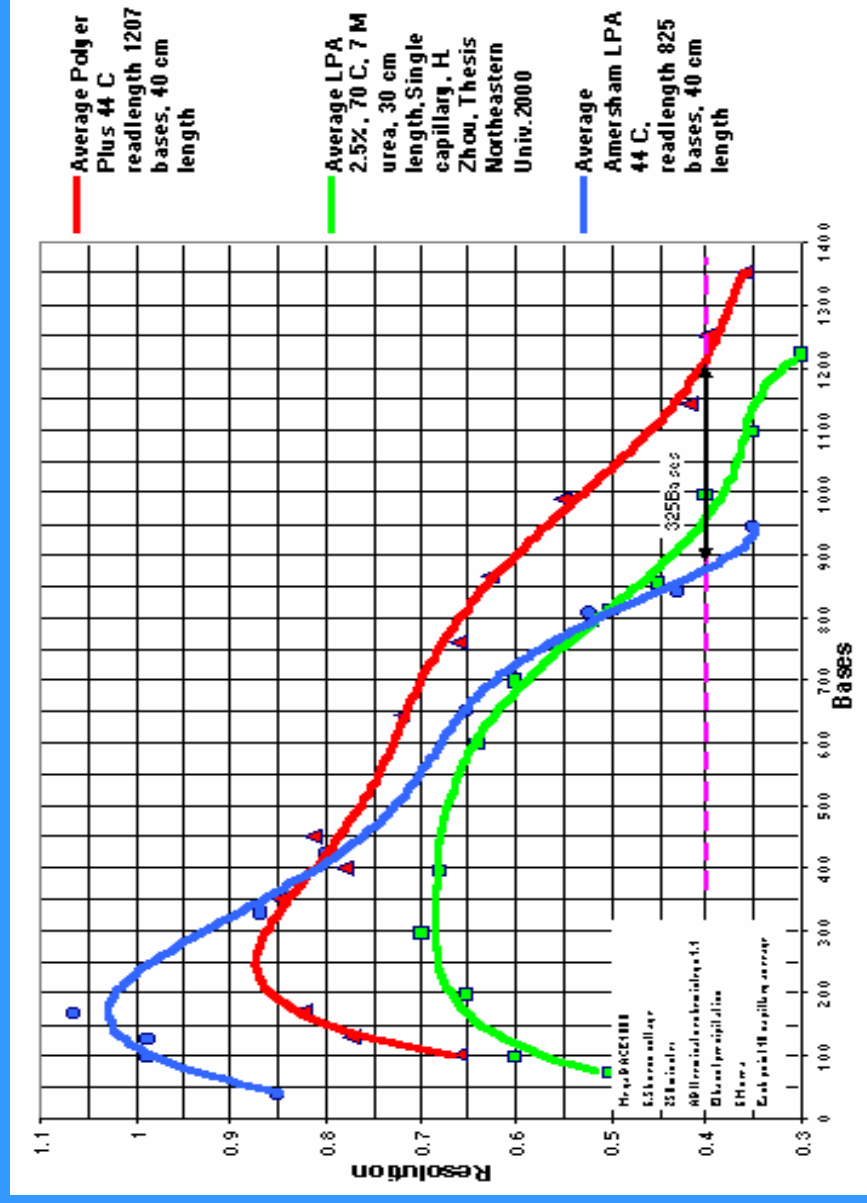
Typical Polymer Plus Separation



- Readlength 1260 Bases
- Dye Front Degrades First 70 Bases

Average Resolution vs. Bases

Polymer Plus
Increases
Resolution 325
Bases over
Amersham



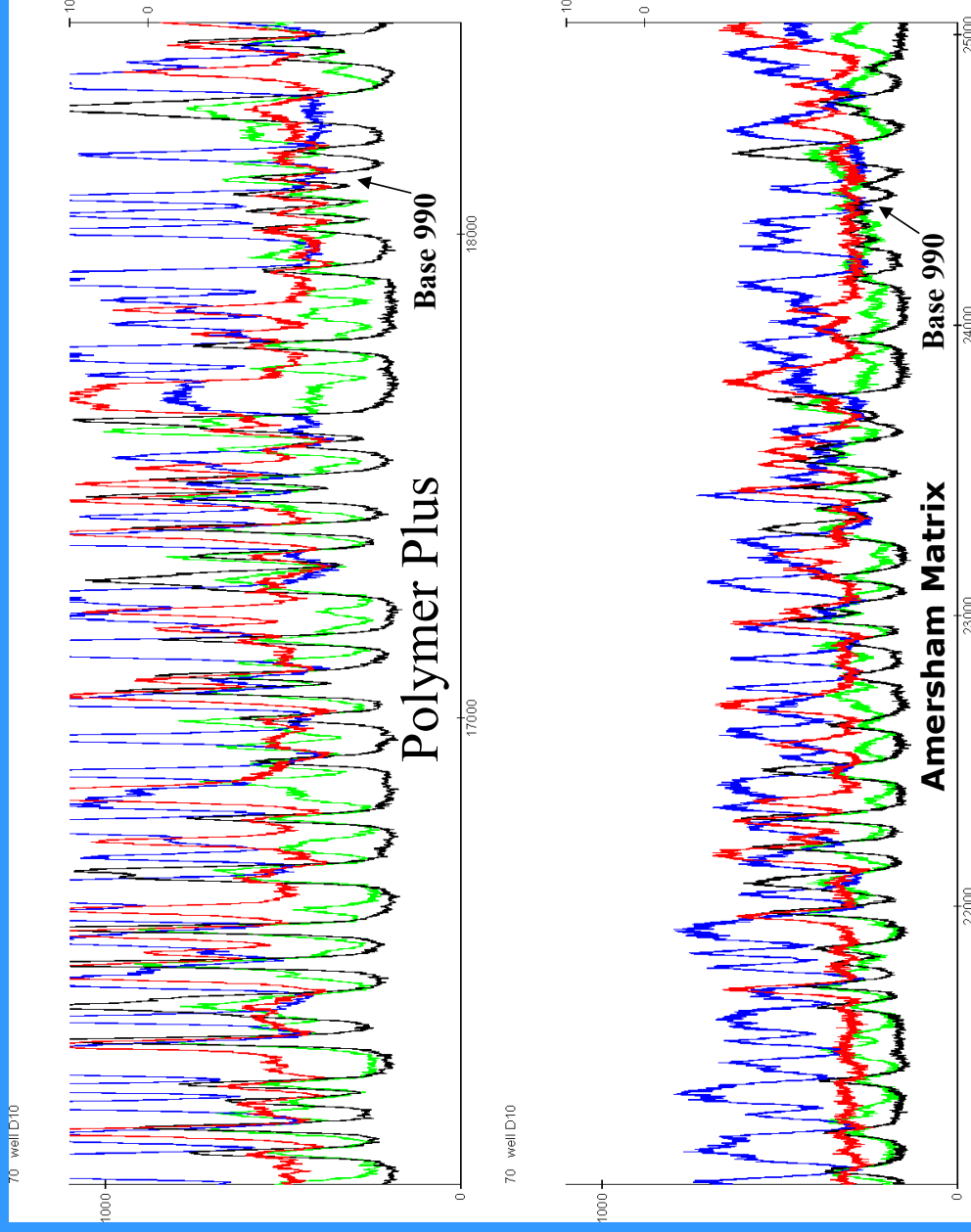
MegaBACE and Long Read Matrix are
trade marks of Amersham
Biosciences

Polymer Plus vs. Amersham Matrix at 1000 Bases

Signal to
Noise 3X
better for
Polymer
Plus

Narrower
Peaks make
Amplitudes
Higher

1000 Bases
in
180
Minutes



JGI Web Site Statistics

Date(s)	Total Q20* Bases	Total Lanes**	% Passed†	Ave. Read Length‡
12/11/04: ABI3730	29.867 Million	41,088	97.05%	748
12/11/04: MegaBACE4000	9.952 Million	18,048	90.31%	608
12/11/04: MegaBACE4500	21.374 Million	28,800	95.03%	779

*Q20 indicates good confidence in the assignment of a base.

**The number of lanes is the number of samples loaded into a sequencer.

†The % passed is the percentage of bases that meet the Q20 criteria and were in a lane with an average read length of more than 50 bases.

‡Read length is the total number of Q20 bases in a read (i.e., in a lane with more than 50 Q20 bases).

**Conversion
of
Polymer Plus's Cimarron Read Length
to
JGI Q20 Phred Scores
for
Production Samples**

- Cimarron Read Length MegaBACE™1000
- Amersham 808 Bases
- JGI Web Site results for MegaBACE™4000
- Amersham 608 Q20 Bases
- Polymer Plus 1217 Bases Interpolates to ~ 915 Q20 Bases