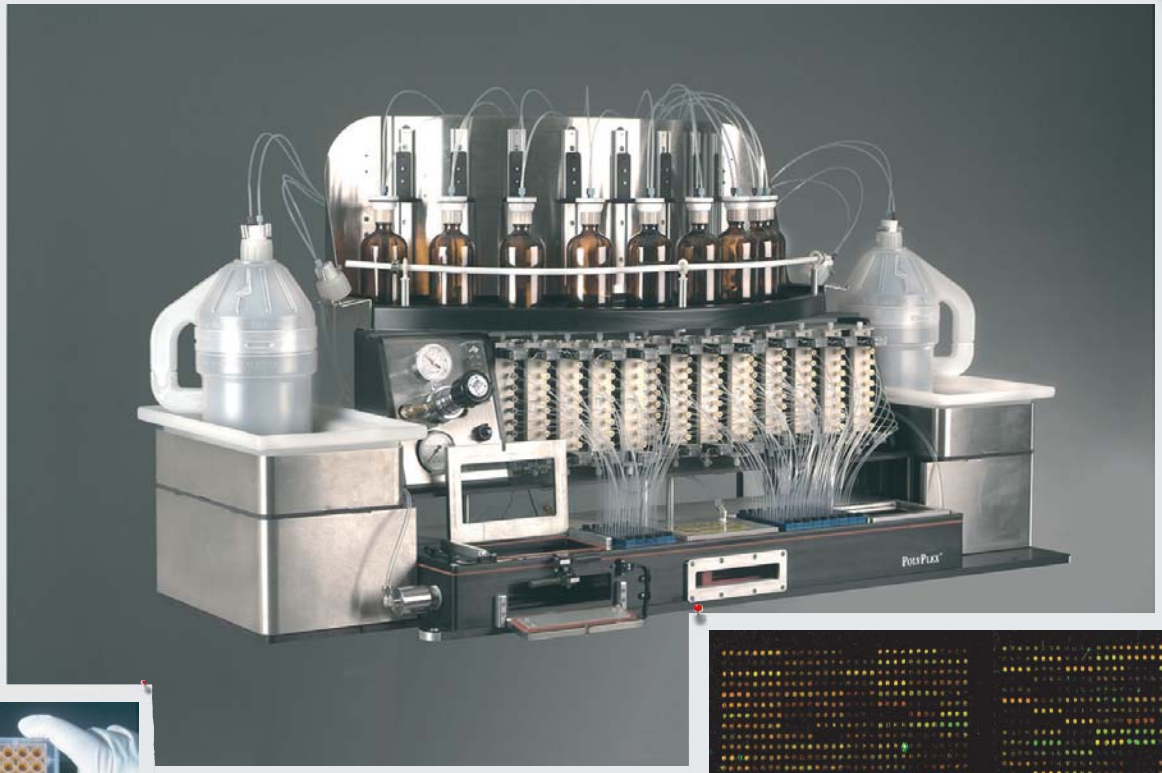
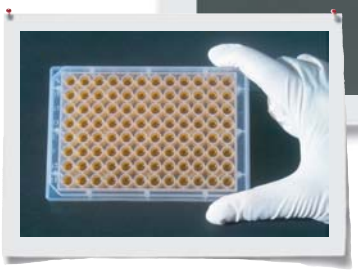
GENOMIC SOLUTIONS®
A Harvard Bioscience Company

Genomics
DNA Shearing
Colony Picking
Cell Growth
DNA/RNA Synthesis
Microarraying
Hybridization
Scanning

PolyPlex®

High-throughput, oligo synthesis in a 96-well format.





Trityl Collection at Any Cycle

Oligo Array Hybridization

PolyPlex Oligos on OmniGrid Aldehyde Slides

Data courtesy of Roger Kroes at Dept. of Biomedical Engineering, Falk Center for Molecular Therapeutics, Northwestern University

The PolyPlex is a fast, cost-effective, 96-well oligonucleotide synthesizer capable of generating a full plate of 20-mers in less than 3 hours. The second generation **PolyPlex** features up to eight amidite positions to meet the ever-growing demand for synthesizing specialty oligos.

Highly reliable valves, with low dead volumes and accurate dispensing, deliver low cost synthesis at **less than $0.10 per base**. Different scales are available, up to 1 µmol, using cartridges. Trityl collection is available after any base addition providing *in situ* QC. Each **PolyPlex** instrument includes one year of technical and onsite-service support. Validated protocols are provided along with **powerful PolyPlex software**. Flexible importing of oligo sequences and synthesis in 96-well format are ideal features for seamless integration with the product line of **OmniGrid** micro-arrayers, slides and reagents.

Key Benefits

- Up to 4 auxiliary positions for special chemistries
- Less than $0.10 per base
- Convenient 96-well format
- User-friendly software with flexible sequence loading

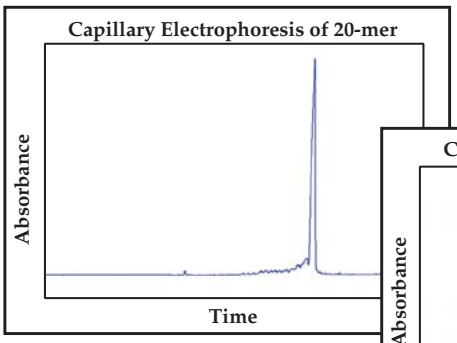
GENEMACHINES®

PolyPlex®

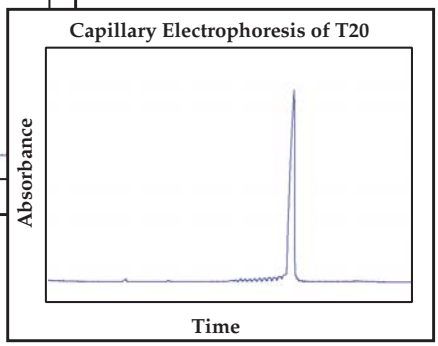
Design Specifications

Dimensions	60" W x 21" D x 31" H (1.52m x 0.53m x 0.79m)
Cost per Synthesis	$0.086 per base for a 20-mer synthesis; $0.078 per base for a 70-mer synthesis. Includes all costs needed to make ready-to-use crude oligos at 50 nmol scale.
Reagent Positions	Up to 15 positions available to accommodate for specialty chemistries
Capacity per Run	96 wells; up to 1 µmol scale each well.
Argon Consumption	55 std. ft^3 for a full plate of 20-mers, or 6 plates per standard cylinder (type 300 cylinder).

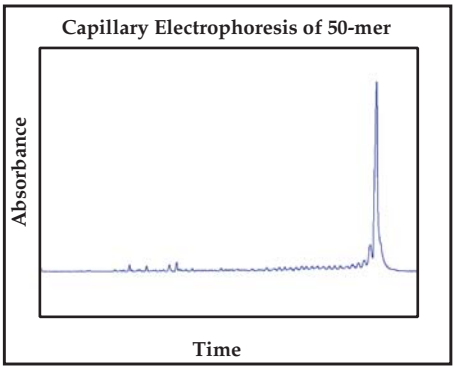
Data and Software



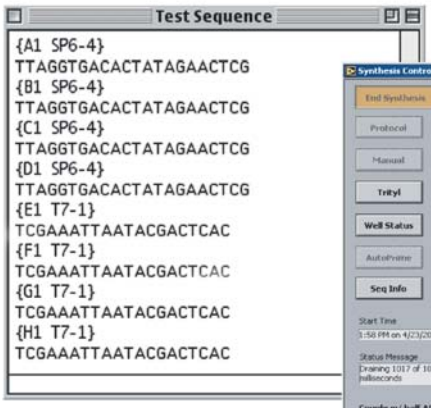
20-mer prepared with the PolyPlex in 2.7 hours. Coupling Efficiency- 98.8%
CGATGCTATGGATGTGGATG



T20 prepared with the PolyPlex in 2.7 hours. Coupling Efficiency- 99.5%

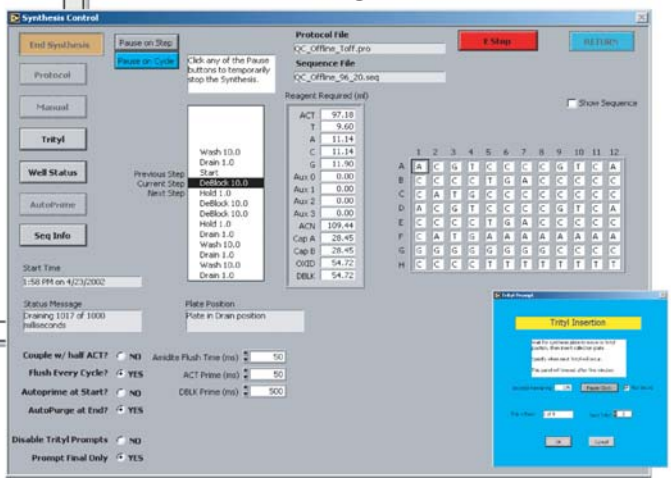


50-mer prepared with the PolyPlex in 7 hours. Coupling Efficiency- 99.4%
GAATTCCAGACCAACCTGGTGCCCTACCCCCGCATCCACTTCCCTCTGGC



Sequence input text file format easily integrates into any database environment.

PolyPlex software provides thorough synthesis monitoring and flexible hardware control.



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