Phage Display Made Simple with QuickPoint™ Pre-Cast Gels!

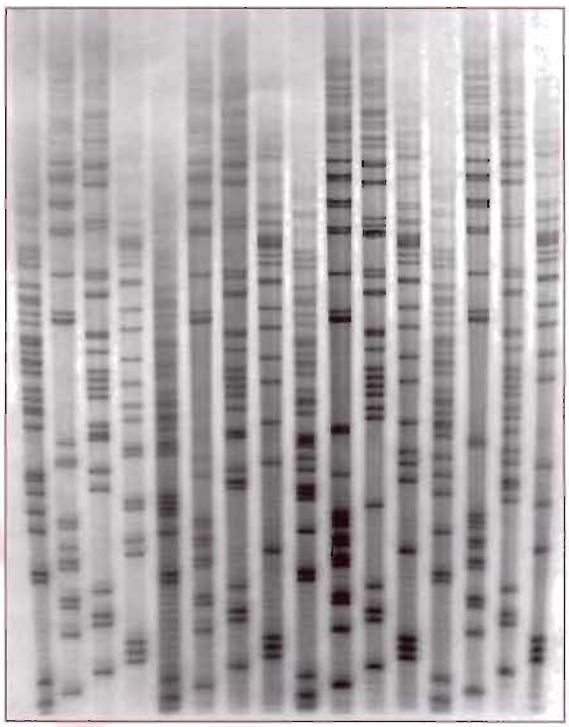
NOVEX has made phage display easier and faster with the QuickPoint™ Rapid Nucleic Acid Separation System:

- **SMALL**
  10 x 12cm gels
- **FAST**
  20 minute runs
- **PRE-CAST!**
  6 month shelf-life

The QuickPoint™ system provides a fast, easy-to-use, pre-cast gel capable of resolving a minimum of 60 bases from your phage display sequences in only 15 minutes. Just dilute your sequencing reaction samples in the QuickPoint Sample Loading Buffer, load onto the QuickPoint pre-cast gel, run, and develop by autoradiography or chemiluminescence. QuickPoint gels provide fast and accurate phage display sequence results every time! Don't waste any more time pouring large sequencing gels when our QuickPoint Rapid Nucleic Acid Separation System can provide even better results in a fraction of the time, effort and cost.

Phage display has become a powerful technique used to study peptides or proteins with biologically active binding properties. This technique involves expressing the peptide or proteins as a fusion with coat protein on the surface of filamentous phage. Screening of the desired "epitope" is performed by a technique called "biopanning" in which the phage-displayed peptides are incubated in a plate coated with a target protein. The unbound phage is washed away and the remaining specifically-bound phage is eluted from the plate and amplified by PCR. Additional cycles of biopanning and amplification are performed to enrich the pool of phage in favor of the tightest bound epitopes.

Applications for phage display include identifying peptides or proteins that bind receptors or substrates, developing pharmaceutical peptides or proteins, or improving binding properties of an antibody or increasing selectivity for a ligand.



Clones against v-SRC oncogene antibody were selected from a phage library (Ph.D.7™ Kit from New England Biolabs) and sequenced using the Sequenase™ 2.0 kit from Amersham

NOVEX™
NOVEL EXPERIMENTAL TECHNOLOGY

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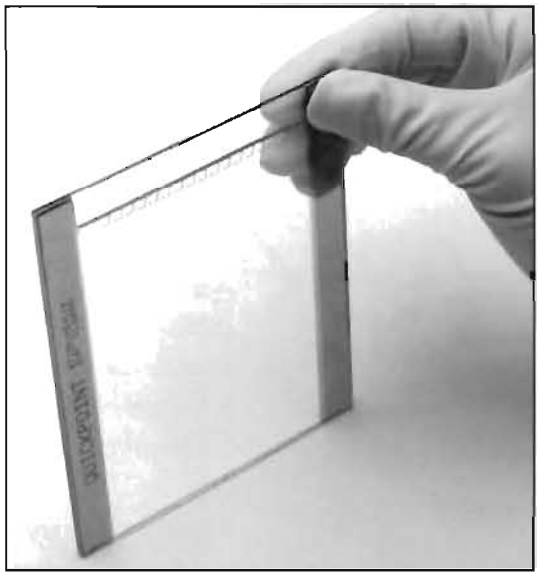
PROTOCOL

PLEASE READ THE QUICKPOINT GEL INSTRUCTION BOOKLET BEFORE PROCEEDING.

1. Enriched phage is prepared by performing 2 to 3 rounds of amplification and biopanning. Single phage plaques are amplified and DNA is isolated and purified by PEG precipitation, followed by phenol chloroform extraction and ethanol precipitation. Final DNA samples are resuspended in H_2O and the quantity and purity is assessed by OD 260/280 reading.
2. Sequencing samples are prepared according to the recommended protocol in the QuickPoint Gel Instruction Booklet.
3. 0.5µl of prepared samples are electrophoresed.
4. The gel is fixed, washed, and developed as usual according to the recommended protocol in the QuickPoint Gel Instruction Booklet.



Ordering Information

Product	*Code*	*Price ($)*
QuickPoint™ Starter Kit Kit includes: 1 box of 4 QuickPoint™ Gels (QP9731), QP Running Buffer, 50X, 250ml (QP9732), QP Sample Loading Buffer, 2.5ml (QP9733).	QP9735	Free w/purchase of QuickPoint Cell (EI9700)
QuickPoint™ Cell	EI9700	395.00
QuickPoint Gels (16 well, 250µm thick, 4/box)	QP9731	90.00
QuickPoint Running Buffer, 50X, 250ml	QP9732	29.00
QuickPoint Sample Loading Buffer, 2.5ml	QP9733	12.00
QuickPoint Kit Kit includes: 2 boxes of 4 QuickPoint Gels (QP9731), QP Running Buffer, 50X, 250ml (QP9732), QP Sample Loading Buffer, 2.5ml (QP9733).	QP9736	200.00

1-800-456-6839

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