

Introduction:

Membrane chromatography has been suggested to be the best separations technology currently available for virus purification. Membrane chromatography offers high capacity, high throughput and high resolution for virus purification. Two types of Pall Mustang chromatography units are available, the disposable capsules and the reusable modules. Both product lines use the same Mustang Q membrane, which offers very high dynamic capacity ($>10^{12}$ Adenovirus/ml). Mustang Q capsules are single use products with very high throughput (10-40CV/min) offering excellent capture of Adenovirus particles. Disposable capsules allow the users to eliminate cleaning and cleaning validation. Mustang Q modules are high-resolution reusable devices. After simple filtration through a Pall SpiralCap, one may load the cell culture supernatant directly onto these Mustang chromatography units. The extremely high throughput precludes the need to concentrate, prior to chromatography. The high capacity of Mustang Q membrane for Adenovirus and DNA ($>20\text{mg/ml}$), allows efficient, and effective separation, without the need for benzonase. The elimination of benzonase will alleviate the concern of animal product contamination. Pall tangential flow filtration (TFF) ultrafiltration technology will allow users to desalt and concentrate the final virus sample in one convenient step.

Pall Life Sciences Donates:

50 SpiralCap (0.8/0.2 μm); 4 of the Mustang coin housings, and 10 boxes of Mustang Q disposable coins; 200 disposable Q Acrodics (a new disposable chromatography product, available sometime after October 2001); 2 of the 10 ml Mustang Q capsules; 1 set of Mustang 10 ml Q module with module housing; and 1 set of mini (TFF) system for process development.

Pall Life Sciences Offers Discounts:

If processing large volumes is necessary, larger Mustang products are available to meet your scale-up requirements. Pall Life Sciences will offer a 25% discount on all Mustang products such as: larger Mustang Q units (60 ml and 300 ml capsules; and 100 ml and 1 liter modules); and Maxi (TFF) system.

To order Mustang products at our special discounted rate, please call 1-800-521-1520 or fax 734-913-6495.

Pall Life Sciences Offers Technical Assistance:

All of above Pall products come with full technical support including an initial purification protocol. We will be happy to provide further assistance with process development. Allow us to be your research and purification partner. Please feel free to contact us at 1-800-859-3245 and/or [mustang @pall.com](mailto:mustang@pall.com) for technical assistance on Mustang units. Please call us at 1-800-345-8766 for technical assistance on TFF units.