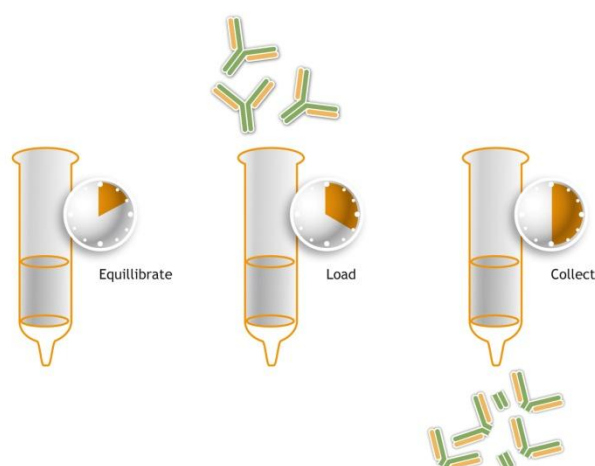


## FragIT™ Fragmentation of 20 - 100 mg of IgG in less than 30 minutes.

Genovis launches FragIT, a self-drained column for fragmentation of larger quantities of IgG. The immobilized enzyme FabRICATOR® generate precise F(ab')<sub>2</sub> and Fc fragments in less than 30 minutes.



Fragmentation of large amounts of IgG is typically associated with low yield, time consuming optimization and operation at low pH with loss of immunoreactivity as a consequence.

FragIT is quick, precise and with high yield. IgG is cleaved into fragments within minutes while passing through the self drain antibody fragmentation column. The column comes pre-packed with FabRICATOR enzyme conjugated to NHS-activated agarose beads and as the IgG passes through the

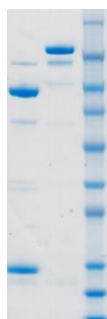
column it will be cleaved into pure F(ab')<sub>2</sub> and Fc fragments. Fragmentation of 20 - 100 mg of IgG can be realized in less than 30 minutes. The column is self drained and operated at room temperature. After elution from the FragIT™ column, F(ab')<sub>2</sub> and Fc fragments can be separated with size exclusion chromatography.

### FabRICATOR®

Genovis has developed a product FabRICATOR, to rapidly generate precise F(ab')<sub>2</sub> fragments. FabRICATOR is a partially modified and his-tagged IdeS enzyme\* that cleaves IgG in a singular defined site below the hinge region leaving an intact F(ab')<sub>2</sub> and two residual Fc fragments. The yield of the reaction is high and the enzyme does not further digest the resulting products.

*\*IdeS is a highly substrate specific cysteine protease originating from Streptococcus pyogenes.*

1 2 3



Lane 1: IgG (Herceptin®) run through FragIT column

Lane 2: IgG (Herceptin®) loaded on column (non-cleaved)

Lane 3: Molecular weight marker (Novex Sharp pre-stained marker, Invitrogen)

### Works on:

- ✓ Humanized IgG
- ✓ Chimeric IgG
- ✓ Human IgG
- ✓ Rabbit IgG
- ✓ Sheep IgG
- ✓ Monkey IgG

SDS-Page image of IgG cleaved by FabRICATOR in FragIT column.

Read more: [www.genovis.com/fragit](http://www.genovis.com/fragit)

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