

FabRICATOR® MagIC workflow for Thermo Scientific™ KingFisher™ Purification System

Instructions for products:

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FabRICATOR MagIC 1 x 2 ml A0-FRM-024
Digestion of up to 24 x 200 µg IgG

FabRICATOR MagIC 4 x 2 ml A0-FRM-096
Digestion of up to 96 x 200 µg IgG

Product description

FabRICATOR MagIC is a resin with the FabRICATOR enzyme covalently coupled to magnetic agarose beads for IgG subunit generation. After fragmentation, the FabRICATOR MagIC resin is easily removed by magnetic separation and pure F(ab')₂ and Fc fragments are quickly recovered without the presence of FabRICATOR in the final preparation.

FabRICATOR MagIC can:

- digest all subclasses of human IgG as well as some classes of monkey, rat, rabbit and sheep IgG.
- digest IgG at a specific site below the hinge region, and there is no risk of overdigestion if the incubation time is prolonged.
- be used with all commonly used buffers with a pH from 6.0 to 8.0. Optimization may be required.

Content and Storage

Each vial of FabRICATOR MagIC contains sufficient material to digest up to 24 x 200 µg IgG. The resin is supplied in 20% EtOH with no preservatives added.

FabRICATOR MagIC is shipped cold and should be stored at +4-8°C upon arrival. **Do not freeze the product!**

FabRICATOR MagIC is for R&D use only.

Additional material required

- Digestion buffer: 10 mM Sodium Phosphate, 150 mM NaCl, pH 7.4 (PBS).
- KingFisher™* Duo Prime Purification System (Thermo Scientific™*, Cat# 5400110) **OR** KingFisher™ Flex Purification System (Thermo Scientific™, Cat# 5400601)
- Microtiter deep well 96 plate (Thermo Scientific™, Cat# 95040450)
- KingFisher™ Duo 12-tip comp (Thermo Scientific™, Cat# 97003500) **OR** KingFisher™ Flex 96 tip comb (Thermo Scientific™, Cat#97002524)

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Sample preparation

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Order Europe, EMEA and Asia: order@genovis.com | **Order Us & Canada:** orders.us@genovis.com

www.genovis.com

Prepare the antibody in digestion buffer¹ at a concentration of 0.2-2.0 mg/mL.

It is possible to add 0.05% Polysorbate 20 to the digestion buffer to minimize shear stress.

For generation of reduced subunits, Fd', LC and scFc, add TCEP to a final concentration of 5 mM to the sample.

Digestion of IgG using FabRICATOR MagIC and KingFisher Duo Prime

1. Resuspend the FabRICATOR MagIC resin by careful inversion of the vial until a homogenous slurry is observed.
2. Dispense the IgG sample, FabRICATOR MagIC and PBS in the desired number of wells in a 96-deepwell plate for the KingFisher according to the following layout:

A	100 µl Sample (0.2-2.0 mg/ml) / well
B	Tip Comb lane
C	
D	80 µl FabRICATOR MagIC slurry / well
E	1000 µl PBS 7.4 / well
F	waste lane
G	
H	

3. Place the plate in the KingFisher instrument.
4. Start the optimized protocol* for FabRICATOR MagIC Duo in the KingFisher's BindIt software.

* available for download at www.genovis.com

Digestion of IgG using FabRICATOR MagIC and KingFisher Flex

1. Resuspend the FabRICATOR MagIC resin by careful inversion of the vial until a homogenous slurry is observed.
2. Dispense the IgG sample, FabRICATOR MagIC and PBS in the desired number of wells in separate 96-deepwell plates.
3. Place the plates in the KingFisher instrument according to the following layout:

Plate 1	Tip Comb plate
Plate 2	100 µl Sample (0.2-2.0 mg/ml) / well
Plate 3	80 µl FabRICATOR MagIC slurry / well
Plate 4	1000 µl PBS 7.4 / well
Plate 5	Waste plate
Plate 6	
Plate 7	
Plate 8	

4. Start the optimized protocol* for FabRICATOR MagIC Flex in the KingFisher's BindIt software.

* available for download at www.genovis.com

Notes

1. Other commonly used buffers at physiological pH and ionic strength can also be used. Optimization may be required.
2. Incubation time can be increased without overdigestion of the antibody.

Quality Control

FabRICATOR MagIC is tested to meet the specifications and lot-to-lot consistency.

FabRICATOR MagIC is tested for the absence of microbial contamination using blood agar plates, Sabouraud dextrose agar plates and fluid thioglycollate medium.

FabRICATOR®MagIC

Limited Use Label License: For research use only. Not intended for any animal or human therapeutic or diagnostic use.

The purchase of the **IdeS** enzyme from *Streptococcus pyogenes* (sold under the trade name FabRICATOR®) conveys to the purchaser the limited, non-transferable right to use the purchased amount of **IdeS** only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel.

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- 3) **IdeS** and the digested IgG will not be used *in vivo* in humans.
- 4) Purchaser will not make commercial use of the **IdeS** unless it first secures a Sublicense Agreement from Genovis AB for such commercial use.

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