



Fact Sheet

# FREGATA

## Red Clover (4n)

*Trifolium pratense L.*

### Things to know

FREGATA is the first tetraploid variety of red clover which was selected on a low content of the oestrogen acting substance formononetin. It leads back on a colchicine treatment of the breeding material of the variety FORMICA.

Like FORMICA, FREGATA has a content of formononetin which is only half as high as those of comparable varieties. The resistance of FREGATA against antracnose is clearly better than the one of ASTUR and LARUS. Therefore, it excels in a very good persistence.

### Descent

#### Base material

Colchicine treatment of breeding material of the variety Formica.

### MO seed

Row trial 1999 (TP9945) with seed harvest from 53 families

### Literature

Suter D., Hirschi H.-U., Frick R., 2019. Rotklee unter der Lupe: Ergebnisse der Sortenprüfung 2016-2018. Agrarforschung Schweiz 10(11), 454-461

Suter D., Frick R., Hirschi H.-U., Aebi P., 2014. Sortenprüfung mit Rotklee: deutliche Fortschritte. Agrarforschung Schweiz 5(7), 272-279

### National listing

#### Situation in Switzerland

On the Swiss List of Recommended Varieties of Forage Plants since 2008

#### Further registered in the following countries

DEU, AUT

### Agronomic characteristics

Results of the official Swiss variety trials 2016-2018 (Suter et al. 2019) (Mattenklee tetraploid)

	FREGATA	Mean
Yield	2.5	3.0
General impression	2.7	2.7
Juvenile growth	1.8	2.2
Competing ability	3.4	4.0
Persistence	4.5	4.5
Resistance to winter conditions	3.3	3.4
Resistance to Anthracnose	2.8	2.7
Resistance to leafspots an rust	3.6	2.9
Index (weighted average of all notes)	3.1	3.2

Scoring scale 1 = very good; 5 = medium; 9 = very poor  
 Yield Mean of 5 experimental sites over 2 years  
 Mean Mean value of standard varieties

### Description according to UPOV guidelines

DUS test conducted at Schamhorst, BSA (DEU), 2005-2006

UPOV No	Characteristics	State of expression	Note
2	Ploidy	tetraploid	4
5	Plant: natural height in the year of sowing	medium to tall	6
6	Leaf: color in the year of sowing	medium green to dark green	6
9	Plant: natural height in spring	tall	7
10	Leaf: intensity of green color	medium	5
11	Time of flowering	very early to early	2
12	Stem: length	short to medium	4
14	Stem: number of internodes	low to medium	4
16	Leaf: shape of medial leaflet	ovate	2

Version: 14.07.2021

Publisher: Agroscope, Reckenholzstrasse 191, 8046 Zürich

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