

506 Cross

M 691A cys-3 P22

(II L)

(# 1089) : Back cross to St. Lawrence + mat. # 2489

ascospores isolated into tubes + GCP + NZ case: I, II back cross + met; III & later " crosses

Cross	Parents	Germination No / Total spores	Allele ratio	Notes
BC I	(506) M 691A x 21a cys-3 x + (P22)	49/49 ~ 100%	3:46 ~ 6%	Crossing media SC + met
II c	cys-3 (.22)A x 21a FGSC cys-3 x + 2490	25/48 ~ 52%	7:18 ~ 40%	
III	M 438 (II.13) a x M 1A+ cys-3 (FGSC 2489)	46/49 ~ 90%	0:46 0% (no met)	
IV	(III.2) a x (BC 6 of 2490) 528(A)+ (rec. 6.3)	121/200 ~ 60%	30:91 ~ 33% (lots of met)	
V	(IV.42) a x 1A+ 626(A) (-8) (FGSC 2489)	44/50 ~ 88%	1:39 ~ 2.5% (no met)	
VI	(506.V.32) a x 1A+ (# 2489)	87/100 ~ 87%	1:86 ~ 1.2% (SC+met)	
VII	M 822 A x M 527 a # 4200 (6.2) (6 <sup>th</sup> BC of # 2490)	70/100 ~ 70%	3:63 ~ 5% (SC+lots of met)	

465/645 72.1%

47:413 413

av. 11.4% viability  
but (2 x 25% (30:91) ← 2 crosses  
rest (6 x) 2-6% (10:310) other 6 crosses

# 4028 → M 602/A (506.VII.43)  
# 4029 → M 873/a (506.VII.18) } cys-3 P22

depending on method?  
possibly age of cross = maturation  
selection of lens dark 2 spores  
supplement in SC?