March 1977

uvs-3 tested by reduced halo on DNase Testagar

last asci checked for UV sensitivity

Pedigree of strains used for UV-survival curves (see Käfer & Fraser 1979, MGG 169:117)

(M ___ = silicagel numbers McGill, Montreal)

( ) = Cross No

(Cross No)

BC I M 5 | a uvs-3 (# 1627, FGSC) (331)

when crossed, it contained 3 other mutants:
- semi-lethal (sle)
- suppresser of poor growth on GC = small on DNA (su-sm)
- velvety appearance ~ slow (ve)

II 331-rec. a (332) → M 207 | a uvs+?

III M 209 | A - uvs-3 (su-sm ; ve) (333)

2 whole asci

IV M 274 | A - uvs-3 (su-sm segregating) (334)

(7 whole asci)

Tetra type ascus

V M 317 | A (1337) uvs-3 (su-sm) good growth on slants, small on DNA-media

M 316 | a (335) uvs-3 (single mutant?) poor on slants, large thin on DNAase test agar

9 asci - Tetra type asci

2 asci

VI M 381 | A uvs-3 (su-sm) (1331) random spores

M 382 | a uvs-3 intermediate? likely su-sm

M 384 | a uvs-3 (single mutant?) (336) random spores ± OK / poor on slants, minor morph. segregating?

VII M 459 | a uvs-3 (likely su-sm) (1339b)

M 458 | a uvs-3 (" " " ") (336.8) 337b asci done

M 505 | A (C.8) (in 1352) Asci 90% OK

M 553 | a / M 554 | A uvs-3

M 550 | a (B.4) Asci morph/+ 62% → Tetra types → M 556 | a (B.2)

M 549 | a (D.5) Asci morph/+ (widow) 75% Tetra-types → M 555 | A (K5)

M 556 | a × M 555 | A uvs-3

FGSC # 4175 # 4174

Mating type linkage to centromere

in asci of uvs-3 × + crosses:

		incl. incomplete asci
complete asci: 2nd div. segr.	20	23
Total	/104	/115
	19.2%	20%

mt – centromere : ~ 10% recombination