

Fungal Genetics Stock Center  
Dept. of Microbiology  
Univ. of Kansas Medical Center

Kansas City, KS 66103

Prints or other data relating to this deposit will aid the Stock Center and recipients of the strain.

Accession  
number

SPECIES *Neurospora crassa*

MATING TYPE A

7920

GENOTYPE esr-BMH8 aga A (esr = new locus, enhancer of spermidine requirement)  
No locus number for BMH8; could be allelic with esr-1

DESIGNATION OF MUTANT ALLELE(S) BMH8 UM906

LINKAGE GROUP(S) I (near mating type); VII (UM906)

STRAIN DESIGNATION IF WILD TYPE N/A

YOUR STOCK NUMBER FOR THIS CULTURE IC2748-51A  
include stock no. from other collections

ORIGIN OF STOCK UV mutagenesis of strain IC2552-65A (spe-3[JP120], inl [89601] aga [UM906] A), which is very leaky for the spermidine requirement yielded, after selection for Spe<sup>-</sup>, a strain carrying this additional mutation (esr[BMH]). This strain is a product of outcrossing the original multiple mutant, and has no spermidine requirement.

( For example - obtained from, genetic background, from cross with; or if collected from nature, collection point, substrate and collector.

PUBLISHED REFERENCES Davis, RH, P Lieu, JL Ristow (1994) *Neurospora* mutants affecting polyamine-dependent processes and basic amino acid transport mutants resistant to the polyamine inhibitor,  $\alpha$ -difluoromethylornithine. *Genetics* 138:649-655. This publication does NOT assign BMH mutants the esr locus name.

IF UNPUBLISHED, please indicate strain of origin, mutagen, worker, genetic background, important characteristics

COMMENTS (special growth requirements, aberrations, heterokaryon compatib special uses of strain, etc.)

Mutants of the BMH series are difficult to test; their action is to enhance the need of *Neurospora* for spermidine. Both combining them with leaky spe mutations and testing them on polyamine inhibitors (dicyclohexylamine and  $\alpha$ -difluoromethylornithine) will demonstrate this. In addition, ascospores and (usually) conidia of BMH mutants germinate and then pause-often for more than one day-before continuing growth. This mutation imparts a very weak phenotype of any kind as a single mutant. Note: arginine imposes a spermidine requirement on aga-carrying strains.

YOUR NAME Rowland Davis DATE Feb 2, 1995