

# Clint Magill

I did not have a chance to verify the auxotrophic requirements or transport defects. They should respond as follows:

(amino acids in mg/100ml medium)

Strain	Minimal					Minimal + 10 mg L-his					Minimal + 10 mg L-his + 10 mg L-arg			Minimal + 10 mg L-his + 10 mg L-arg + 10 mg L-met			Minimal + 10 mg L-his + 10 mg L-arg + 10 mg L-met + 10 mg L-lys + 10 mg L-val + 10 mg L-phe + 10 mg L-thr + 10 mg L-ile + 10 mg L-leu + 10 mg L-isoleu + 10 mg L-met			
	Minimal	Minimal + 10 mg L-his	Minimal + 10 mg L-his + 10 mg L-arg	Minimal + 10 mg L-his + 10 mg L-arg + 10 mg L-met	Minimal + 10 mg L-his + 10 mg L-arg + 10 mg L-met + 10 mg L-lys + 10 mg L-val + 10 mg L-phe + 10 mg L-thr + 10 mg L-ile + 10 mg L-leu + 10 mg L-isoleu + 10 mg L-met	Minimal + 10 mg L-his	Minimal + 10 mg L-his + 10 mg L-arg	Minimal + 10 mg L-his + 10 mg L-arg + 10 mg L-met	Minimal + 10 mg L-his + 10 mg L-arg + 10 mg L-met + 10 mg L-lys + 10 mg L-val + 10 mg L-phe + 10 mg L-thr + 10 mg L-ile + 10 mg L-leu + 10 mg L-isoleu + 10 mg L-met	Minimal + 10 mg L-his	Minimal + 10 mg L-his + 10 mg L-arg	Minimal + 10 mg L-his + 10 mg L-arg + 10 mg L-met	Minimal + 10 mg L-his	Minimal + 10 mg L-his + 10 mg L-arg	Minimal + 10 mg L-his + 10 mg L-arg + 10 mg L-met	Minimal + 10 mg L-his	Minimal + 10 mg L-his + 10 mg L-arg	Minimal + 10 mg L-his + 10 mg L-arg + 10 mg L-met		
<u>his-3, neu<sup>a</sup></u>	-	+	-	+	-	-	+	-	+	-	-	+	-	+	-	-	+	-	+	-
<u>his-3, leu<sup>a</sup></u>	-	+	+	-	-	-	+	+	-	-	-	+	+	-	-	-	+	+	-	-
<u>his-3, neu<sup>R</sup></u>	-	+	+	+	+	-	+	+	+	+	-	+	+	+	+	-	+	+	+	+
<u>his-3</u>	-	+	+	+	+	-	+	+	+	+	-	+	+	+	+	-	+	+	+	+

← the neu<sup>R</sup> strain can be inhibited from growth by raising the methionine concentration to  $2 \times 10^{-2}$  M. (Other neutral amino acids can substitute for methionine.)

neu<sup>R</sup>-2 seems to be linked to arg-2 and pyr-3 on Chromosome IV R. Others which were isolated did not show linkage with met-2 on IV R.