Does leucine actually catalyze the ATP-PP exchange
in AS-1 ? 1/16

Since possible that the L-leucine (Mut. Biochemicals) contains some L-methionine tested preps of DL-leucine which are very probably synthetic.

Solutions of DL-leucine by
a) Eastman Kodak
b) Mutrisinal

		1	2	3	4
M/2 Tris pH 8.0	✓	0.1	→	→	→
M/10 $MgCl_2$	✓	0.02	→	→	→
ATP .0094	✓	0.01	→	→	→
PP^{32} .025	✓	0.04	→	→	→
L-leucine M/20		-	.02		
DL leucine (EK) M/20		-		.02	
DL leucine (Mut) M/20		-			.02
H_2O	✓	.30			
AS-1 1→10		.02	→	→	→

Stopped in 0.25 ml 7% PCA
Added .05 ml Marite.
Washed as usual but
suspended final pellet in
.1 ml of EDTA soln.

	1	2	3	4
cpm/0.5 ml.	90	898	108	125
Total	270	2700	324	375
Δ	-	2430	54	105

Clear that exchange catalyzed by the L-leucine is not due leucine per se but probably to methionine which contaminates the L-leucine but is not present in the DL (Synthetic ?) leucine.