Table S1 Definition of three types of efficiencies. (1) simple efficiency; (2) rational efficiency; (3) utility efficiency.

EFFICIENCY	FORMULA
Simple efficiency (η_1)	$\eta_1 = \frac{Ex_{pr} + Ex_w}{Ex_{in}}$
Rational efficiency (η_2)	$\eta_2 = \frac{Ex_{pr}}{Ex_{in}}$
Utility efficiency (η_3)	$\eta_3 = \frac{Ex_{pr} - Ex_{tr}}{Ex_{in} - Ex_{tr}}$

Table S2 Summary of batch versus continuous wet granulation based tablet manufacturing resource efficiency analysis at process level (α-level) (%).

	BATCH			CONTINUOUS		
PROCESS	**η1**	**η2**	**η3**	**η1**	**η2**	**η3**
α-1 DISPENSING	98.8	96.1	69.8	98.8	96.1	70.0
α-2 GRANULATION	69.7	60.3	23.8	94.3	85.2	61.3
α-3 MIXING	99.3	98.6	52.9	99.8	99.0	78.4
α-4 COMPRESSION	95.3	87.9	61.1	99.4	91.8	93.2
α-5 COATING	66.4	62.4	10.6	66.8	62.9	10.6
α-6 PACKAGING	98.7	97.8	41.9	98.7	97.8	42.2
TOTAL PROCESS LEVEL	**78.6**	**71.7**	**24.4**	**86.5**	**79.9**	**32.8**

Table S3 Summary of batch versus continuous wet granulation based tablet manufacturing irreversibility generation and irreversibility reduction at process level (α-level), FU = 1 tablet.

PROCESS	**BATCH IRREVERSIBILITY (kJ/tablet)**	**CONTINUOUS IRREVERSIBILITY (kJ/tablet)**	**IRREVERSIBILITY REDUCTION (%)**
α-1 DISPENSING	0.2	0.1	2.6
α-2 GRANULATION	6.1	0.8	86.6
α-3 MIXING	0.1	0.0	68.3
α-4 COMPRESSION	0.6	0.1	88.6
α-5 COATING	6.4	6.3	1.8
α-6 PACKAGING	0.6	0.6	1.8
TOTAL PROCESS LEVEL	**14.0**	**8.0**	**43.1**