

Table 5. Some relevant process parameters during fed-batch cultivation of a lysine producing strain of *C. glutamicum*

Parameter	Relative value of parameter (%) at fermentation time					
	10 h	20 h	30 h	40 h	50 h	60 h
μ	33	100	5	0	0	0
$Y_{X/S}$	100	88	53	30	13	0
$Y_{P/S}$	0	18	90	96	55	38
q_P	33	74	100	93	74	59
$[\text{carrier}]_{sp}$	57	97	100	86	69	57

The data are taken from [141], the specific carrier concentration was evaluated by kinetic experiments as described in [141]. The 100% values of the various parameters were: growth rate μ , 0.03 h^{-1} ; biomass yield $Y_{X/S}$, $0.4 \text{ g dry weight g}^{-1} \text{ glucose}$; product yield $Y_{P/S}$, $0.56 \text{ mol lysine mol}^{-1} \text{ glucose}$; specific productivity q_P , $0.27 \text{ mmol lysine g}^{-1} \text{ dry weight h}^{-1}$; specific carrier concentration $[\text{carrier}]_{sp}$, $\text{nmol g}^{-1} \text{ dry weight}$