Table XI. Fermentation of D-xylose and D-ribose with Klebsiella pneumoniae (formerly Aerobacter aerogenes); data are from ref. 23.

## Amount (mol/100 mol pentose fermented)

Substance Carbon dioxide	D-xylose			p-ribose			
	Experimental 46.0	Calculated		Experimental	Calculated		
		45.7	45.7	60.0	62.9	62.9	64.4
Formate	72.3	72.3a	72.3a	59.4	59.4a	59.4ª	59.4a
Acetoin	0.0	$0.0^{a}$	$0.0^{a}$	0.0	$0.0^{a}$	0.0a	$0.0^{a}$
Ethanol	55.6	55.6a	55.6	59.6	59.6a	58.1	59.6a
Lactate	3.3	3.3a	3.3a	3.5	3.5a	3.5a	2.0
Succinate	6.0	6.0a	6.0a	11.0	11.0a	11.0 <sup>a</sup>	11.0a
Acetate	61.0	61.0a	61.0a	54.6	54.6a	54.6ª	54.6a
Butanediol	3.7	3.7	3.7a	10.3	9.6	10.3a	10.3a
Hydrogen	N.D.	32.8	32.8	N.D.	40.1	40.9	40.9
Carbon recovery	80.0	80.0a	80.0a	88.7	88.7a	88.7a	88.7ª
NADH <sub>2</sub> from XH <sub>2</sub>	_	5.5	5.5	_	3.7	1.5	2.9
Excess ATP		-47.2	-47.2	_	73.6	73.6	73.6
Apparent YATP	_	11.12	11.12	<del>-</del>	6.32	6.32	6.32

<sup>&</sup>lt;sup>a</sup>Refers to data used in the calculations.

Note: ND refers to data not determined.