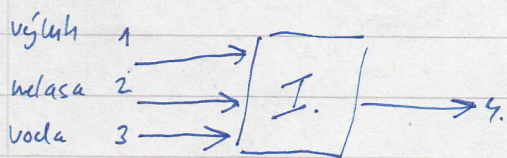


U2.6

výluh: 50% voda, 2.5% cukr, zbytky 2%

melasa: 50% sacharosa, 1% cukr, 18% voda, zbytky



W	1	2	3	4
A-H ₂ O	0.5	0.18	1	W _{A4}
B-in. cukr	0.025	0.01	—	W _{B4} 0.02
C-sach.	0	0.5	—	W _{C4}
D-zbýtky	0.475	0.31	—	W _{D4}
m	125 kg	45 kg	m ₃	m ₄

(celkem) $125 + 45 + m_3 = m_4$ [1]

(voda) $0.5 \cdot 125 + 0.18 \cdot 45 + m_3 = W_{A4} \cdot m_4$ [2]

(in. cukr) $0.025 \cdot 125 + 0.01 \cdot 45 = 0.02 \cdot m_4$ [3]

(sach) $0.5 \cdot 45 = W_{C4} \cdot m_4$ [4]

$W_{D4} = 1 - W_{A4} - 0.02 - W_{C4}$ [5]

[3] $m_4 = 178.75 \text{ kg}$

[1] $m_3 = 8.75 \text{ kg}$

[2] $W_{A4} = 0.444$

[4] $W_{C4} = 0.1259 \text{ kg/kg}$

[5] $W_{D4} = 0.41$

Je nutno přidat 8.75 kg vody. Sacharosa má koncentraci 12.59 hm%.