ERRATUM

Through an unfortunate printing error
in our July issue, page 459 in the paper
by Horst D. Blasey and U. Winzer,
Low Protein Serum-free Medium
for Antibody Production in Stirred Bioreactors,
was printed without **figure 2**.

A correctly-printed replacement page is overleaf.

Please insert at p. 459 of Volume 11 no. 7 (July 1989)

Fig. 2

Batch/fed-batch fermentation of the hybridom 1.7.1 in IFP. Feeding with amino acids and glucose resulted in an increased cell-density and a higher antibody titer

mM NH ₄ ⁺	(NH ₄) ₂ SO ₄		NH ₄ Cl
	total/living cells • 10 ⁵ /ml		
	cell-line 1.7.1		
	day 2	day 3	day 2
0	6.1/5.8	16.8/15.9	6.4/5.3
1	6.3/5.3	14.1/13.3	6.8/4.4
2	5.3/4.6	12.4/11.2	4.4/3.1
3	5.6/3.3	13.9/12.8	3.0/1.6
4	4.7/3.5	11.3/9.4	4.0/2.9
5	4.4/3.5	7.6/5.9	3.2/1.7
6	3.6/2.1	6.6/4.4	3.7/2.3
7	3.6/1.4	5.6/2.4	3.0/2.4
8	3.2/1.6	4.7/2.5	2.8/1.7

Table 4

Influence of ammonia on cell-growth

Hybridoma cells of the clone 1.7.1 were seeded at a density of $1 \cdot 10^5$ cells/ml into culture flasks with the serum-free medium IFP which was supplemented with different conc. of ammonia.

To make sure that the anion of the salt that was applied with the NH₄⁺-ion was not responsible for the observed effect, two different ammonia salts were used.

As can be seen, very low concentrations of ammonia are effective in inhibiting cell growth of the hybridom a 1.7.1.

Conclusion

The medium IFP was constructed especially to overcome problems associated with high protein levels. Despite the very low protein content, IFP was shown to support growth at a high viability and a high MAb production in a stirred bioreactor. Even when inoculated at a density lower than $1 \cdot 10^5$ cells/ml, the culture started growing without a lag phase. The reduction of protein content by substitution of PEG for BSA-FA not only lowers media costs, but also abolishes the need of BSA-FA complexation. It simplifies purification because secreted immunoglobulin becomes quantitatively the main protein fraction and no procedure for separation of BSA is needed.

For some cell lines the addition of lipoproteins to the sf-medium was found to be essential, resulting in higher growth rates(Jäger, 1988) or higher viability. In general however supplementation with