Table 1: Calculation of the required buffer volumes based on the column bed volume. The column bed volume corresponds to the amount of resin. This means a 0.2 ml gravity flow column contains a column bed volume of 0.2. Example: 6 x 1 CV buffer should be applied to a 0.2 ml column. In this case, 6 x 0.2 ml or a total of 1.2 ml buffer must be applied to the column.

n x CV		column bed volume (CV)				required buffer volume (ml)
		0.2	1	5	10	
quantity (n)	0.5	0.1	0.5	2.5	5	
	0.6	0.12	0.6	3	6	
	0.8	0.16	0.8	4	8	
	1	0.2	1	5	10	
	1.6	0.32	1.6	8	16	
	2	0.4	2	10	20	
	5	1	5	25	50	
	6	1.2	6	30	60	
	8	1.6	8	40	80	
	15	7.5	15	75	150	

Buffer composition:

Buffer W	100 mM Tris/HCl, pH 8.0; 150 mM NaCl; 1 mM EDTA
Buffer BXT	100 mM Tris/HCl, pH 8.0; 150 mM NaCl; 1 mM EDTA; 50 mM biotin
Buffer XT-R	3 M $MgCl_2$
Buffer R (optional)	100 mM Tris/HCl, pH 8.0; 150 mM NaCl; 1 mM EDTA; 1 mM HABA

Biotin in cell culture media

Especially culture media for mammalian or insect cell cultivation may contain significant amounts of biotin. In case of Strep-Tactin®XT implementation for protein purification, biotin does not have to be masked by the addition of avidin or biotin blocking solution (BioLock). Compared to Strep-Tactin®, Strep-Tactin®XT has a lower affinity for biotin. Therefore, the binding of the Strep-tag®II or Twin-Strep-tag® is not disturbed by biotin contained in culture media. However, in order to avoid co-purification of biotinylated proteins, BioLock (cat. no. 2-0205-050) has to be added.

For research use only

IBA Headquarters
IBA GmbH
Rudolf-Wissell-Str. 28
37079 Goettingen
Germany
Tel: +49 (0) 551-50672-0
Fax: +49 (0) 551-50672-181
E-mail: info@iba-lifesciences.com

US contact information
1328 Ashby Road
Olivette, MO 63132
USA
Fax 1-888-531-6813
E-mail: info@iba-lifesciences.com