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Appendices

Appendix A

The figure below shows the SDS-PAGE densitometric analyses of the wild type PfAdoMetDC/ODC (A/Owt) and AdoMetDC insert-deleted (A/OΔA1, A/OΔA2 and A/OΔA3) protein samples.

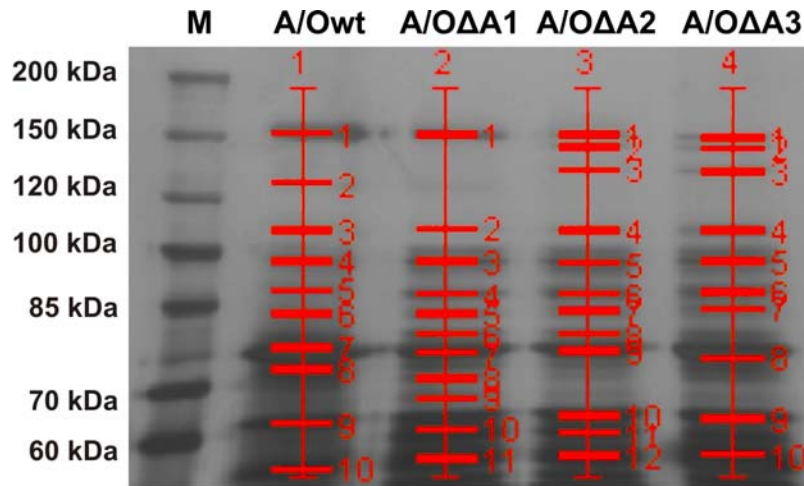


Figure 1A: Relative quantity band analyses of the expressed bifunctional wild type and PfAdoMetDC insert-deleted recombinant proteins.

The red lines indicate the specific bands analysed for each protein sample. The protein size-determining marker is shown in lane M.

The relative quantities of each band in each protein sample (refer to Figure 1A, red bands) were subsequently determined and given as a percentage of the total protein (i.e. the sum of all the band intensities determined) in the table below.

Table 1A: Relative quantities obtained after band analyses of the bifunctional wild type and PfAdoMetDC insert-deleted protein samples

Band number	Relative quantities (%)				Protein
	Lane number				
	1	2	3	4	
1	9.229	7.753	5.176	2.859	Bifunctional PfA/O
2	7.113	3.129	2.462	2.833	~112 kDa truncated PfA/O protein
3	4.784	10.486	4.288	4.228	
4	8.397	5.327	3.624	4.97	
5	4.361	4.602	10.843	9.962	
6	4.138	4.088	5.644	5.898	
7	11.283	10.658	3.692	4.241	~70 kDa HSP + truncated PfODC protein
8	12.902	4.197	3.91	20.037	
9	9.326	4.171	14.261	7.176	
10	9.623	13.533	10.608	18.333	~60 kDa HSP
11		8.156	5.402		
12			9.544		

The relative quantities of the bifunctional wild type (1) and insert-deleted (2 to 4) proteins that were used in the determination of their specific activities are shown in yellow. The quantities of the bands corresponding to the ~112 kDa contaminant protein is shown in green. And the quantities of the ~70 and ~60 kDa HSP proteins in the different protein samples are shown in blue and pink, respectively.

Appendix B

The figure below shows the SDS-PAGE densitometric analyses of the wild type PfAdoMetDC/ODC (A/Owt) and insert A2 α -helix disrupted (A/OpA2a) protein samples.

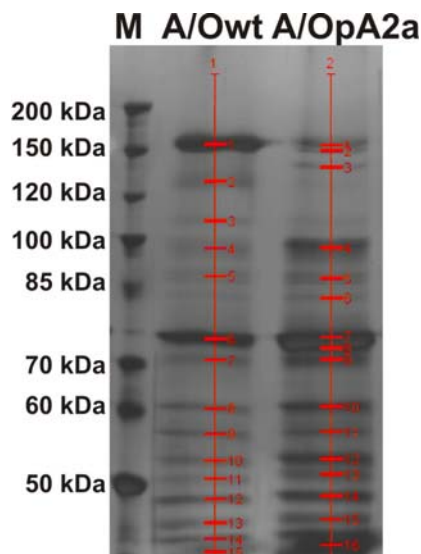


Figure 1B: Relative quantity band analyses of the expressed bifunctional wild type and insert A2 α -helix disrupted recombinant proteins.

The red lines indicate the specific bands analysed for each protein sample. The protein size-determining marker is shown in lane M.

The relative quantities of each band in each protein sample (refer to Figure 1B, red bands) were subsequently determined and given as a percentage of the total protein (i.e. the sum of all the band intensities determined) in the table below.

Table 1B: Relative quantities obtained after band analyses of the bifunctional wild type and insert A2 α -helix disrupted protein samples

Band number	Relative quantities (%)		Protein
	Lane number		
	1	2	
1	8.728	3.251	Bifunctional PfA/O
2	6.052	1.297	
3	2.321	2.015	
4	5.308	6.816	~112 kDa truncated PfA/O protein
5	3.658	3.317	
6	6.701	1.882	~70 kDa HSP + truncated PfODC protein
7	3.532	6.863	
8	3.387	2.527	~60 kDa HSP
9	3.106	4.297	
10	3.296	4.977	
11	2.92	3.356	
12	3.561	4.816	
13	3.062	3.136	
14	2.466	4.57	
15	6.176	3.549	
16		11.855	

The relative quantities of the bifunctional wild type (1) and insert A2 α -helix disrupted (2) proteins that were used in the determination of their specific activities are shown in yellow. The quantities of the bands corresponding to the ~112 kDa contaminant protein is shown in green. And the quantities of the ~70 and ~60 kDa HSP proteins in the different protein samples are shown in blue and pink, respectively.