

## Accepted Manuscript

Title: Selecting optimal columns for clarithromycin impurity analysis according to the quantitative relationship of hydrophobic subtraction model

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PII: S0731-7085(16)30609-4  
DOI: <http://dx.doi.org/doi:10.1016/j.jpba.2016.10.026>  
Reference: PBA 10950

To appear in: *Journal of Pharmaceutical and Biomedical Analysis*

Received date: 13-9-2016  
Revised date: 26-10-2016  
Accepted date: 30-10-2016

Please cite this article as: Xia Zhang, Changqin Hu, Selecting optimal columns for clarithromycin impurity analysis according to the quantitative relationship of hydrophobic subtraction model, *Journal of Pharmaceutical and Biomedical Analysis* <http://dx.doi.org/10.1016/j.jpba.2016.10.026>

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## Selecting optimal columns for clarithromycin impurity analysis according to the quantitative relationship of hydrophobic subtraction model

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### Graphical Abstract

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Column	H	S	A	B	C(2.8)	C(7.0)	C(4.4)	Type	USP Designation	log $\alpha_{DC}$	log $\alpha_{EN}$	log $\alpha_{HK}$
173	YMC Pack Pro C18 RS	1.114	0.057	-0.061	-0.056	-0.176	-0.224	-0.194	B	L1	0.028	0.011	0.031
218	J'Sphere H80	1.132	0.059	-0.023	-0.068	-0.242	-0.161	-0.211	B	L1	0.030	0.012	0.029
224	Zorbax Extend C18	1.098	0.050	0.012	-0.041	0.030	0.016	0.025	B	L1	0.027	0.011	0.016
249	Wakosil II 5 C18 AR	0.998	0.075	-0.055	-0.034	0.070	0.010	0.047	B	L1	0.027	0.011	0.023
253	Hitachi LaChrom C18-PM	1.127	0.069	-0.019	-0.068	-0.267	-0.144	-0.220	B	L1	0.031	0.013	0.032
257	Ascentis C18	1.077	0.058	0.030	-0.042	-0.088	-0.084	-0.086	B	L1	0.028	0.011	0.025
258	Hypersil Betamax Neutral	1.098	0.036	0.067	-0.031	-0.038	0.012	-0.019	B	L1	0.025	0.010	0.017
259	Symmetry C18	1.052	0.063	0.018	-0.021	-0.302	0.123	-0.140	B	L1	0.026	0.010	0.037
262	Allure C18	1.131	0.052	0.046	-0.049	-0.037	0.020	-0.015	B	L1	0.029	0.012	0.017
280	Vision C18 HL	0.992	0.056	0.057	-0.013	0.133	0.143	0.137	B	L1	0.025	0.010	0.016
587	Cogent UDC Cholesterol	0.625	0.227	0.528	0.069	0.745	1.212	0.923	other	/	0.045	0.026	0.021
590													
591											Shreshold		
592											log $\alpha_{DC}$	log $\alpha_{EN}$	log $\alpha_{HK}$
593											0.015	0.010	0.015

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