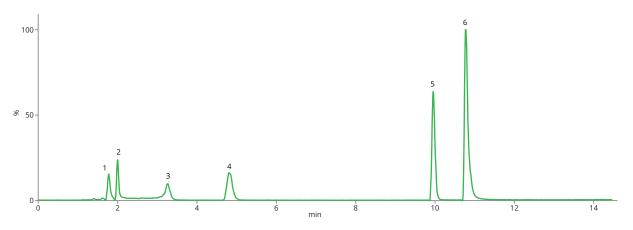


Food supplements

Food supplements are now trending worldwide. Concentrated sources of nutrients, vitamins and aminoacids are used to support the normal nutritional balance and healthy lifestyle. This application shows the simultaneous determination of cAMP, phenylalanine, tryptophan, FAD, malic and citric acids by accurate HPLC method.



Analysis of standard solution on ARION® column

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APPLICATION LIST #473

Food supplements

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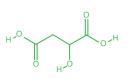
Column	ARION [®] Polar C18, 5.0 μm			
Dimensions	250 mm × 4.6 mm			
Part number	ARI-5721-LM46			
Mobile phase	A: ACN			
	B: 5 mM formic acid			
Gradient elution	Time (min)	%A	%B	
	0	5	95	
	5	5	95	
	12	35	65	
	17	70	30	
Flow rate	0.25 mL/min			
Temperature	30 °C			
Detection	TOF MS			
Injection volume	3 µL			
Analytes	1. Malic acid, CAS No. 6915-15-7			
	2. Citric acid, CAS No. 77-92-9			
	3. cAMP, CAS No	. 60-92	-4	
	4. L-phenylalani	ne, CA	5 No. 63-91-2	
	5. L-tryptophan,	5. L-tryptophan, CAS No. 73-22-3		
	6. Flavin adenine dinucleotide, CAS No. 146-14-5			

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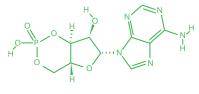
APPLICATION LIST #473

Food supplements

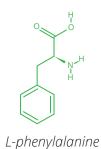


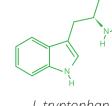
Malic acid





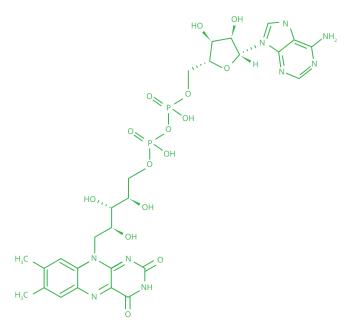
cAMP





L-tryptophan

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Flavin adenine dinucleotide

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