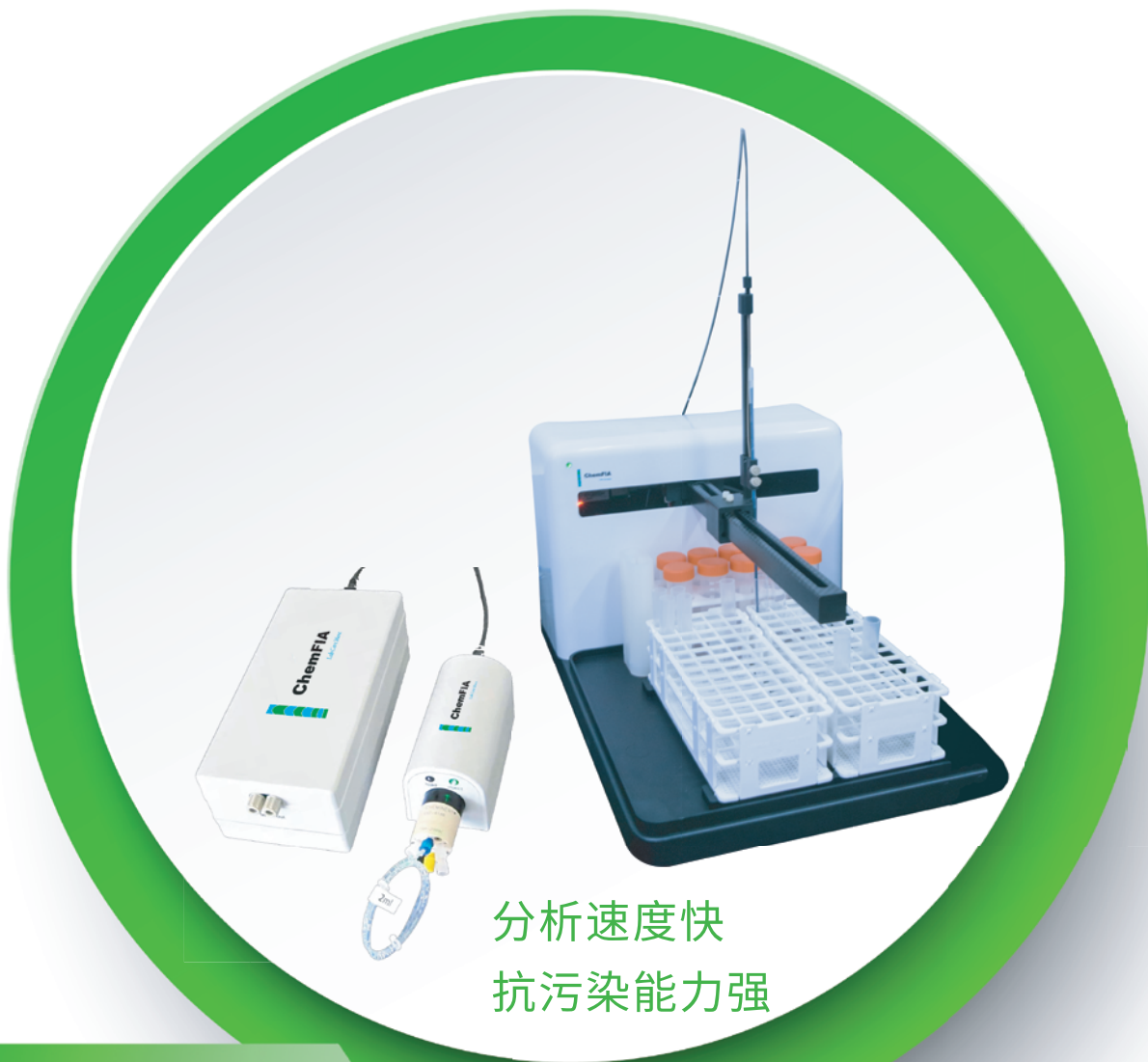




**ChemFIA**

Lab Care More



分析速度快  
抗污染能力强

ICP/ICPMS

全自动快速进样系统

凯菲亚仪器有限公司  
ChemFIA Instrument Co.,Ltd

## 公司简介

凯菲亚仪器有限公司 (ChemFIA Instrument Co.,Ltd.) 是专业从事流动分析仪器设计、研发、生产、销售、服务于一体的高新技术企业, 现有产品包括流动注射分析仪、顺序注射分析仪、痕量金属前处理仪、全自动碘元素分析仪。企业总部位于厦门, 在北京、上海和广州设有办事处。

凯菲亚拥有强大的研发能力, 在厦门大学的技术支撑下, 建立了一支由海归博士、硕士和行业专家等组成的经验丰富、技术精湛的研发团队。基于厦门大学数十年的流动分析技术沉淀, 凯菲亚将该技术应用于水质分析、环境分析、肥料分析、食品分析、饮料酒类等领域, 并开发出对应的自动化专用仪器。

## 仪器介绍

凯菲亚仪器有限公司的AEfast-1型快速进样系统, 可以兼容主流品牌的ICP/ICPMS。它采用高真空快速吸取样品至样品环中, 并且结合阀切换进样技术, 实现快速进样, ICP/ICPMS测试时进样管路同步清洗。凯菲亚的优秀设计使该系统具有最快的分析速度和最低的样品残留。该系统具有以下优点:

1、快速: 典型应用约35秒/样品(ICP测定17个元素, 读数3次), 分析效率提高2倍以上。

解决了自动进样器清洗时间长、分析速度慢的问题。

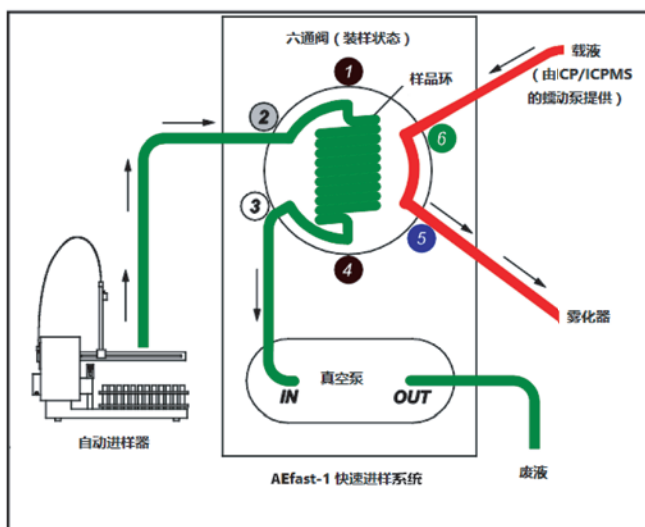
2、典型应用下(35秒/样品), 交叉污染<0.05%。

3、重复性极佳。

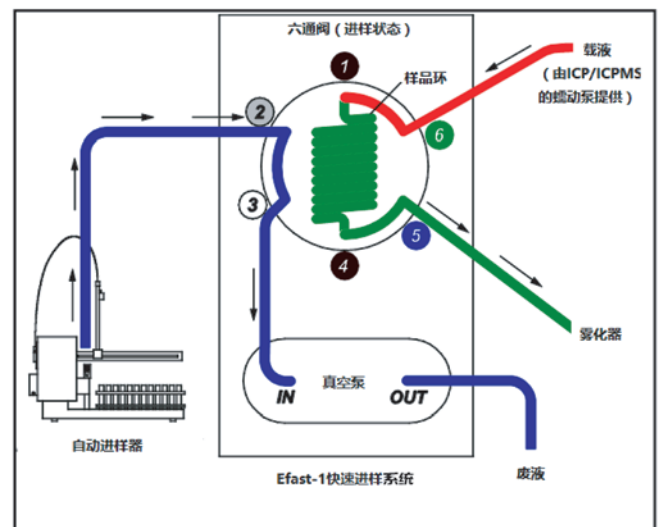
4、“即插即用”, 无需安装软件/插件、方法开发等麻烦步骤。

该系统已内置优化好的方法和参数, 可以和ICP/ICPMS的软件无缝衔接。

## 工作原理



装样状态(同时清洗ICP的管路)



进样状态(同时清洗自动进样器的管路)

实验数据

Sequence No.: 8  
Sample ID: 1ppm  
Analyst:  
Logged In Analyst (Original): Administrator  
Initial Sample Wt:  
Dilution:  
Wash Time:

Autosampler Location: 11  
Date Collected: 2016/1/15 12:49:51  
Data Type: Reprocessed on 2016/1/21 14:12:20

Initial Sample Vol:  
Sample Prep Vol:

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Al 396.153	188904.8	1.001	mg/L	0.0185			1.85%
Sb 206.836	2056.2	0.994	mg/L	0.0134			1.35%
As 193.696	2011.1	0.999	mg/L	0.0123			1.23%
Ba 233.527	178686.8	0.991	mg/L	0.0109			1.10%
B 249.677	13885.8	0.971	mg/L	0.0244			2.51%
Cd 228.802	10175.0	1.007	mg/L	0.0085			0.84%
Co 228.616	44041.0	1.003	mg/L	0.0062			0.62%
Cu 327.393	152314.9	0.986	mg/L	0.0086			0.87%
Pb 220.353	10246.0	0.988	mg/L	0.0072			0.73%
Pb 283.306	8171.0	1.005	mg/L	0.0109			1.08%
Pb 405.781	15111.8	0.998	mg/L	0.0119			1.19%
Mn 257.610	685263.3	1.016	mg/L	0.0127			1.25%
Hg 194.168	2909.4	0.976	mg/L	0.0157			1.61%
Ni 231.604	45815.1	0.991	mg/L	0.0102			1.03%
Se 196.026	1984.2	0.977	mg/L	0.0160			1.64%
Sr 460.733	816620.1	1.032	mg/L	0.0158			1.53%
Sn 189.927	6119.9	1.001	mg/L	0.0084			0.84%
Zn 206.200	37440.1	0.984	mg/L	0.0116			1.18%
Cr 267.716	149770.9	0.999	mg/L	0.0060			0.60%

Sample conc. not calculated. Initial Wt. AND Prep. Volume required OR sample units incorrect.

快速:样品间的分析间隔小于35秒。

重复性:读数3次,各元素均可获得优秀的重复性,RSD极小。

Sequence No.: 9  
Sample ID: 1ppm  
Analyst:  
Logged In Analyst (Original): Administrator  
Initial Sample Wt:  
Dilution:  
Wash Time:

Autosampler Location: 12  
Date Collected: 2016/1/15 12:50:25  
Data Type: Reprocessed on 2016/1/21 14:12:20

Initial Sample Vol:  
Sample Prep Vol:

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Al 396.153	186451.5	0.988	mg/L	0.0167			1.69%
Sb 206.836	2101.7	1.016	mg/L	0.0110			1.08%
As 193.696	1964.8	0.976	mg/L	0.0171			1.75%
Ba 233.527	180489.9	1.001	mg/L	0.0117			0.71%
B 249.677	14515.0	1.015	mg/L	0.0274			2.80%
Cd 228.802	9912.3	0.981	mg/L	0.0074			0.75%
Co 228.616	43514.1	0.991	mg/L	0.0125			1.26%
Cu 327.393	149997.7	0.971	mg/L	0.0114			1.17%
Pb 220.353	10339.3	0.997	mg/L	0.0107			1.07%
Pb 283.306	8154.7	1.003	mg/L	0.0072			0.72%
Pb 405.781	14930.1	0.986	mg/L	0.0187			1.90%
Mn 257.610	666378.1	0.988	mg/L	0.0181			1.83%
Hg 194.168	2936.2	0.985	mg/L	0.0151			1.53%
Ni 231.604	46551.8	1.007	mg/L	0.0033			0.33%
Se 196.026	2037.0	1.003	mg/L	0.0174			1.73%
Sr 460.733	796046.3	1.006	mg/L	0.0051			0.51%
Sn 189.927	6040.4	0.988	mg/L	0.0142			1.44%
Zn 206.200	38239.1	1.005	mg/L	0.0122			1.21%
Cr 267.716	151719.9	1.012	mg/L	0.0151			1.49%

Sample conc. not calculated. Initial Wt. AND Prep. Volume required OR sample units incorrect.

可靠:1ppm的17元素混标,回收率在97%~102%之间。

Sequence No.: 1  
Sample ID: 160115-045-1  
Analyst:  
Logged In Analyst (Original): Administrator  
Initial Sample Wt:  
Dilution:  
Wash Time:

Autosampler Location: 93  
Date Collected: 2016/1/15 14:23:48  
Data Type: Reprocessed on 2016/1/21 14:14:01

Initial Sample Vol:  
Sample Prep Vol:

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Al 396.153	23809.4	0.098	mg/L				
Sb 206.836	14010.6	6.985	mg/L				
As 193.696	-376.1	-0.219	mg/L				
Ba 233.527	1828.8	-0.011	mg/L				
B 249.677	-24489.0	-1.755	mg/L				
Cd 228.802	-874.3	-0.108	mg/L				
Co 228.616	110595.5	2.567	mg/L				
Cu 327.393	2581011.8	17.07	mg/L				
Pb 220.353	-362.5	-0.070	mg/L				
Pb 283.306	26071.8	3.273	mg/L				
Pb 405.781	-7069.0	-0.423	mg/L				
Mn 257.610	84303847.3	127.4	mg/L				
Hg 194.168	99.7	0.027	mg/L				
Ni 231.604	1149046.8	25.59	mg/L				
Se 196.026	-1731.9	-0.917	mg/L				
Sr 460.733	-4439.6	-0.038	mg/L				
Sn 189.927	-222.2	-0.058	mg/L				
Zn 206.200	-36604.4	-0.586	mg/L				
Cr 267.716	34935381.0	235.5	mg/L				

Sample conc. not calculated. Initial Wt. AND Prep. Volume required OR sample units incorrect.

低残留:测完上百ppm的高浓度样品,立即测空白(分析速度仍为35秒/样品)结果显示交叉污染小于0.05%。

Sequence No.: 2  
Sample ID: Blank  
Analyst:  
Logged In Analyst (Original): Administrator  
Initial Sample Wt:  
Dilution:  
Wash Time:

Autosampler Location: 1  
Date Collected: 2016/1/15 14:24:23  
Data Type: Reprocessed on 2016/1/21 14:14:01

Initial Sample Vol:  
Sample Prep Vol:

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Al 396.153	2461.1	-0.019	mg/L	0.0186			
Sb 206.836	22.8	-0.025	mg/L	0.0053			
As 193.696	-1.0	-0.027	mg/L	0.0022			
Ba 233.527	-3.2	-0.021	mg/L	0.0003			
B 249.677	225.4	0.002	mg/L	0.0021			
Cd 228.802	17.2	-0.018	mg/L	0.0033			
Co 228.616	66.8	-0.027	mg/L	0.0010			
Cu 327.393	1525.2	-0.011	mg/L	0.0050			
Pb 220.353	-21.9	-0.036	mg/L	0.0018			
Pb 283.306	-99.0	-0.042	mg/L	0.0148			
Pb 405.781	-54.5	-0.041	mg/L	0.0031			
Mn 257.610	51102.4	0.063	mg/L	0.0031			
Hg 194.168	2.0	-0.009	mg/L	0.0003			
Ni 231.604	487.7	-0.019	mg/L	0.0095			
Se 196.026	22.8	-0.022	mg/L	0.0013			
Sr 460.733	660.8	-0.032	mg/L	0.0113			
Sn 189.927	50.4	-0.014	mg/L	0.0075			
Zn 206.200	65.9	-0.024	mg/L	0.0013			
Cr 267.716	16298.3	0.106	mg/L	0.0475			

Sample conc. not calculated. Initial Wt. AND Prep. Volume required OR sample units incorrect.



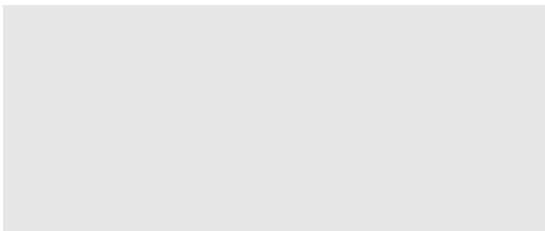


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