

报告编号: SHZ-20230131-006

测试报告

	样品信息										
样品名称	饲料	编号	SHZ-20230131-006								
样品重量	/	剂 型	/								
收样日期	2023/03/13 测试期间 2023/03/13-20										
样品描述	样品描述 /										
	测试	 標求									
测试成分	纽甜、阿力甜、	阿斯巴甜、甜蜜素	、糖精钠								
	参考林	示准									
参考标准	参考标准 NY/T 3473-2019 标样 有										
	仪器信息										
测试仪器	高效液相色串联质谱仪	仪器型号	Xevo TQ-S micro								

● 色谱条件:

色谱柱:	月旭 Ultimate® UHPLC AQ-C18 2.1×100mm,1.8μm								
	时间	流动相 A: (0.1%甲 酸水溶液)%	流动相 B: (0.1%甲 酸乙腈溶液)%						
流动相:	0.00	95	5						
νιι-γ γ /μ.	1.00	95	5						
	7.00	5	95						
	7.10	95	5						
	10.00	95	5						
柱温:		40 °C							
流速:		0.3 mL/min							
进样量:	5 μL								
注意事项	本次测试采用基质曲线,建议与样品同时处理。								



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● 流动相的配置:

流动相 A: 0.1%甲酸水溶液 (取 100μL 甲酸,加水定容至 100mL)

流动相 B: 0.1%甲酸乙腈溶液(取 100µL 甲酸,加乙腈定容至 100mL)

● 质谱条件:

离子源: ESI

检测方式: MRM

干燥气: 氮气, 300℃, 流速: 1100L/Hr

碰撞气: 氩气

离子喷雾电压: 2.5kV

	ı				1	
名称	母离子	子离子	Cone (V)	Collision (V)	Polarity	
2D44)	(m/z)	(m/z)	cone (v)	Comsion (v)	1 Olarity	
纽甜	377.1	200.1	46	16	Negative	
SITHH	3//.1	345.2	40	12	Negative	
		87.1		32		
阿力甜	330.1	167.1	40	22	Negative	
		312.1		12		
阿斯巴甜	293.1	200.1	44	18	Negative	
門別別口印	293.1	261.1	44	12	Negative	
甜蜜素	178.1	80.0	62	24	Nagativa	
加鱼系	1/6.1	178.1	62	22	Negative	
糖精钠	192.1	105.9	6.1	16		
	182.1	182.1	64	18	Negative	

● 样品溶液的配置:

样品溶液: 称取 2 g 样品(精确到 0.001 g)于 50 mL 离心管中准确加入 0.2 %甲酸水溶液 19mL 和饱和乙酸铅溶液 1 mL, 充分振荡 15 min, 超声提取 15 min, 然后于 7000 r/min 离心 10 min, 上清液备用。

BRP 固相萃取柱(60 mg, 3 mL),用 3 mL 乙腈,0.2 %甲酸溶液活化。

取3 mL 备用液过柱,弃去。



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4.63 4.808e+002

182.068 > 105.933 3.510e+002

330.14 > 312.138 1.629e+002

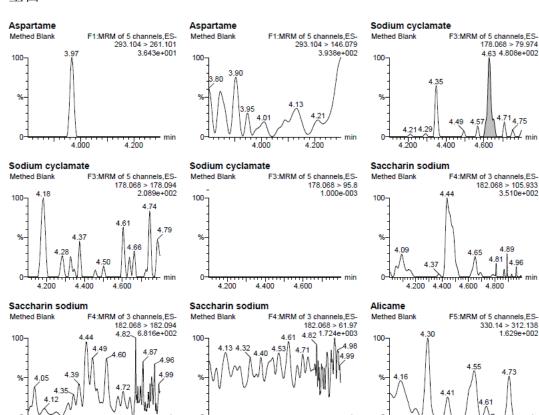
0.2%甲酸溶液 3 mL 淋洗, 弃去, 抽干。

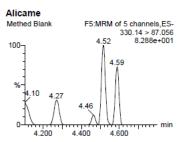
6 mL 乙腈,洗脱并收集。

洗脱液于 50℃氮吹至干,准确加入 0.2 %甲酸水溶液 3 mL 溶解,过 0.22 μm 滤膜,上机分 析。

谱图和数据

(1) 空白



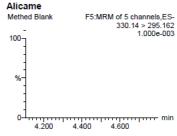


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4.800

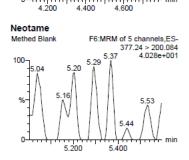
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4.200 4.400



4.400 4.600

4.200



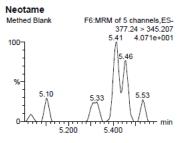


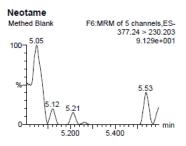
第3页共7页

Add:浙江省金华市婺城区双林南街 168 号



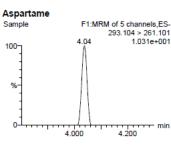
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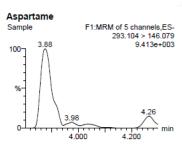


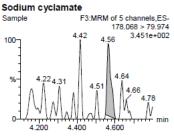


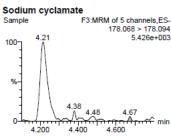
Sample Text	Name	Trace	RT	Area	Primar	ng/mL	%Dev 1º Ratio (A 2º Ratio (A
Methed Blank	Aspartame	293.104 > 261.101					
Methed Blank	Sodium cyclamate	178.068 > 79.974	4.63	11.447	bb	0.009	
Methed Blank	Saccharin sodium	182.068 > 105.933					
Methed Blank	Alicame	330.14 > 312.138					
Methed Blank	Neotame	377.24 > 200.084	_				

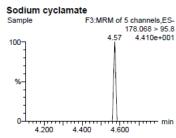
(2) 样品溶液

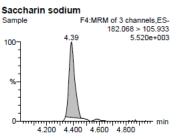


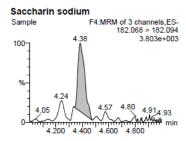


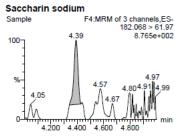


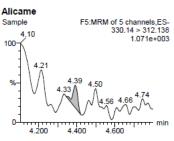


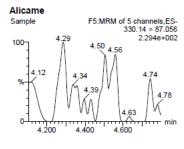


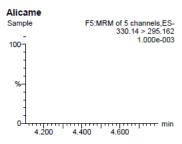


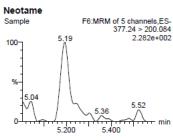












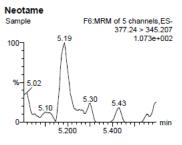


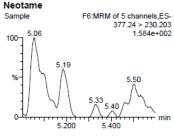
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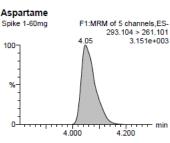
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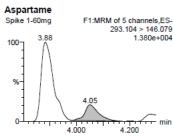


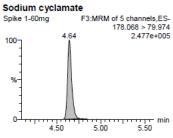


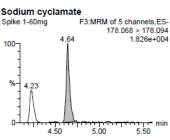
Sample Text	Name	Trace	RT	Area	Primar	ng/mL	%Dev 1º Ratio (A 2º Ra	atio (A
Sample	Aspartame	293.104 > 261.101						
Sample	Sodium cyclamate	178.068 > 79.974	4.56	7.774	bb	0.006	1.750	
Sample	Saccharin sodium	182.068 > 105.933	4.39	261.544	bb	0.935	1.338	10.480
Sample	Alicame	330.14 > 312.138	4.39	8.993	bb	0.020		
Sample	Neotame	377.24 > 200.084						

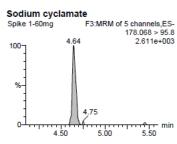
(3) 10 ng/mL 基质曲线

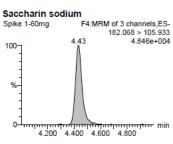


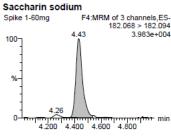


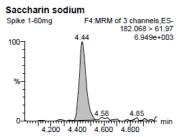


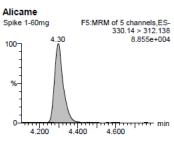


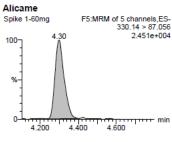


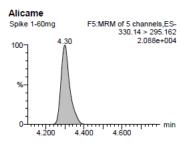


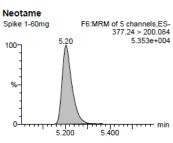














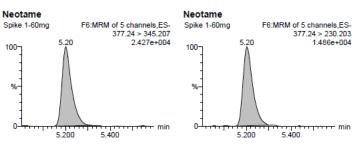
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E-mail:tianjunzou@welchmat.com

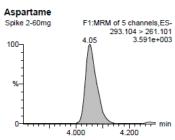


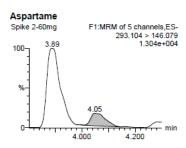
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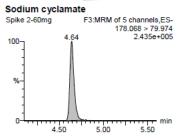


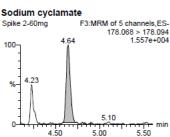
Sample Text	Name	Trace	RT	Area F	Primar	ng/mL	%Dev 1°	Ratio (A	2º Ratio (A
Spike 1-60mg	Aspartame	293.104 > 261.101	4.05	191.294	bb	10.000	0.0	1.154	
Spike 1-60mg	Sodium cyclamate	178.068 > 79.974	4.64	13146.497	bb	10.000	0.0	16.812	110.651
Spike 1-60mg	Saccharin sodium	182.068 > 105.933	4.43	2798.346	bd	10.000	0.0	1.219	6.776
Spike 1-60mg	Alicame	330.14 > 312.138	4.30	4607.418	bb	10.000	0.0	3.434	4.177
Spike 1-60mg	Neotame	377.24 > 200.084	5.20	2683.720	bb	10.000	0.0	2.232	3.626

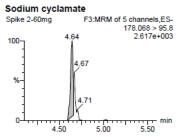
(4) 样品加标,10 ng/mL。

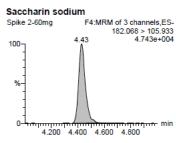










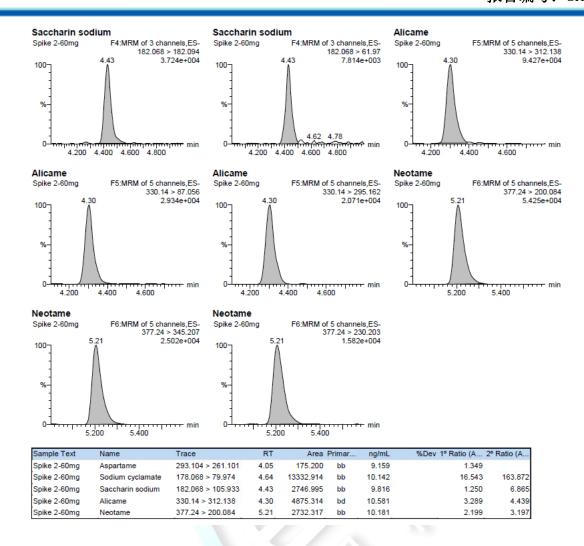




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● 结论:

使用月旭 Ultimate® UHPLC AQ-C18 2.1×100mm, 1.8μm 检测饲料中纽甜、阿力甜、阿斯巴甜、甜蜜素、糖精钠回收率为 101.8%、105.8%、91.6%、101.4%、98.2%,样品回收率满足要求。

日期: 2023/03/17



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