

测试报告

| 样品信息 | | | |
|------|---|------|-----------------------|
| 样品名称 | 精华水 | 编号 | SHZ-20230422-002 |
| 样品重量 | / | 剂型 | / |
| 收样日期 | 2023/04/25 | 测试期间 | 2023/04/25-2023/04/26 |
| 样品描述 | / | | |
| 测试需求 | | | |
| 测试成分 | 倍氯米松、曲安奈德、地索奈德、氟尼缩松、氟氢缩松、泼尼松龙醋酸酯、氟米龙、曲安西龙双醋酸酯 | | |
| 参考标准 | | | |
| 参考标准 | 化妆品安全技术规范（2015 版） | 标样 | 有 |
| 仪器信息 | | | |
| 测试仪器 | 高效液相色谱串联质谱仪 | 仪器型号 | Xevo TQ-S micro |

● 色谱条件:

| | | | |
|-------|--|--------------|---------------|
| 色谱柱: | 月旭 Xtimate® UHPLC C18 2.1×150mm, 1.8μm | | |
| 流动相: | 时间 | 流动相 A: (水) % | 流动相 B: (乙腈) % |
| | 0.00 | 95 | 5 |
| | 24.00 | 15 | 85 |
| | 26.00 | 15 | 85 |
| | 27.00 | 95 | 5 |
| 31.00 | 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。 | | |



● 流动相的配置：

流动相 A：纯化水

流动相 B：乙腈

● 质谱条件：

离子源：ESI

检测方式：MRM

干燥气：氮气，450℃，流速：1000 L/Hr

碰撞气：氩气

离子喷雾电压：3.0 kV

| 名称 | 母离子 (m/z) | 子离子 (m/z) | Cone (V) | Collisio26n (V) | Polarity |
|----------|--------------|--------------|----------|-----------------|----------|
| 倍氯米松 | 409.2 | 147.1 | 32 | 26 | Positive |
| | | 391.2 | | 10 | |
| 曲安奈德 | 435.2 | 397.2 | 36 | 14 | Positive |
| | | 415.2 | | 8 | |
| 地索奈德 | 417.2 | 323.2 | 40 | 12 | Positive |
| | | 399.3 | | 10 | |
| 氟尼缩松 | 435.3 | 321.1 | 36 | 12 | Positive |
| | | 397.2 | | 10 | |
| 氟氢缩松 | 437.2 | 91.0 | 36 | 68 | Positive |
| | | 105.1 | | 54 | |
| | | 285.0 | | 20 | |
| 泼尼松龙醋酸酯 | 403.2 | 147.1 | 28 | 24 | Positive |
| | | 385.2 | | 8 | |
| 氟米龙 | 377.2 | 279.2 | 28 | 16 | Positive |
| | | 321.2 | | 12 | |
| 曲安西龙双醋酸酯 | 479.2 | 321.2 | 36 | 14 | Positive |
| | | 441.2 | | 10 | |



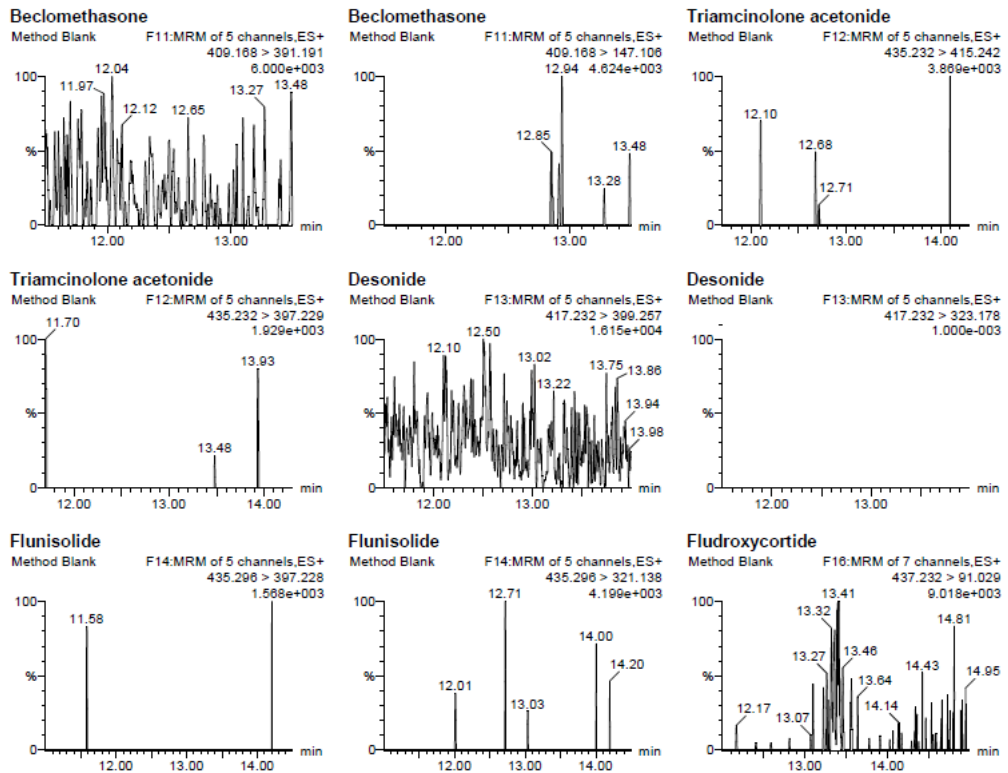
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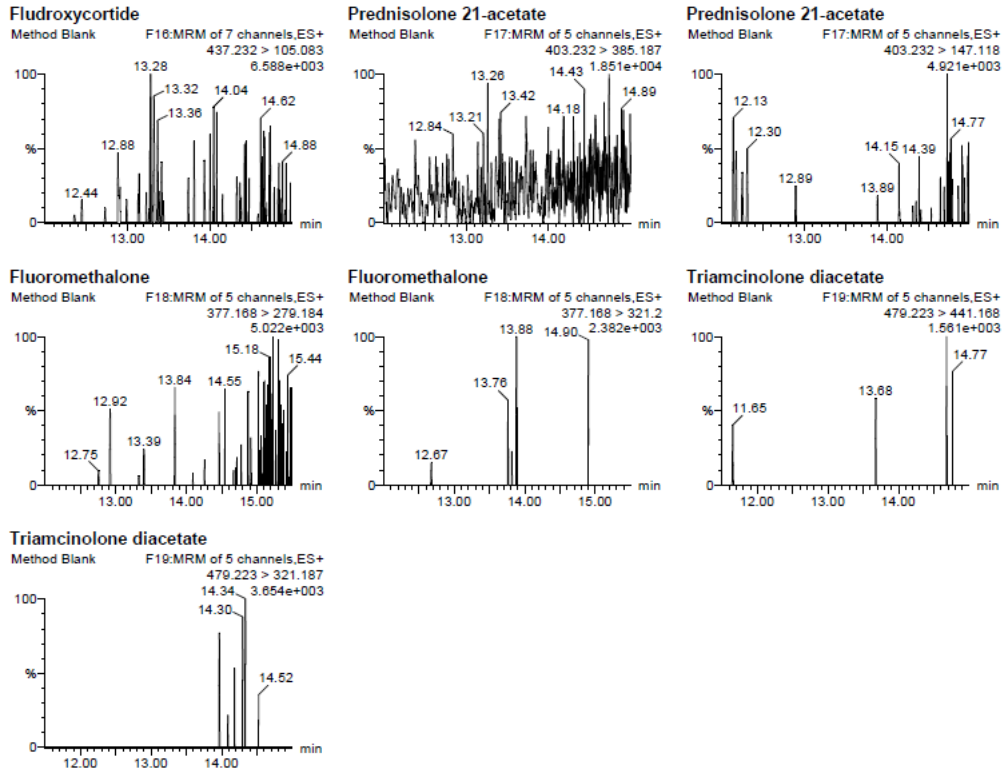
● 样品溶液的配制：

样品溶液：称取 0.2 g 样品，置于 10 mL 具塞比色管中，加入少量乙腈，于涡旋混合仪上振荡 30 s，混合均匀后加乙腈至接近刻度，超声提取 20 min，静置至室温，用乙腈定容至刻度，摇匀，以 4000 r/min 离心 10 min。过滤，取适量上清液用 50 %乙腈溶液稀释，过 0.22 μm 膜，上机分析。

谱图和数据

(1) 空白

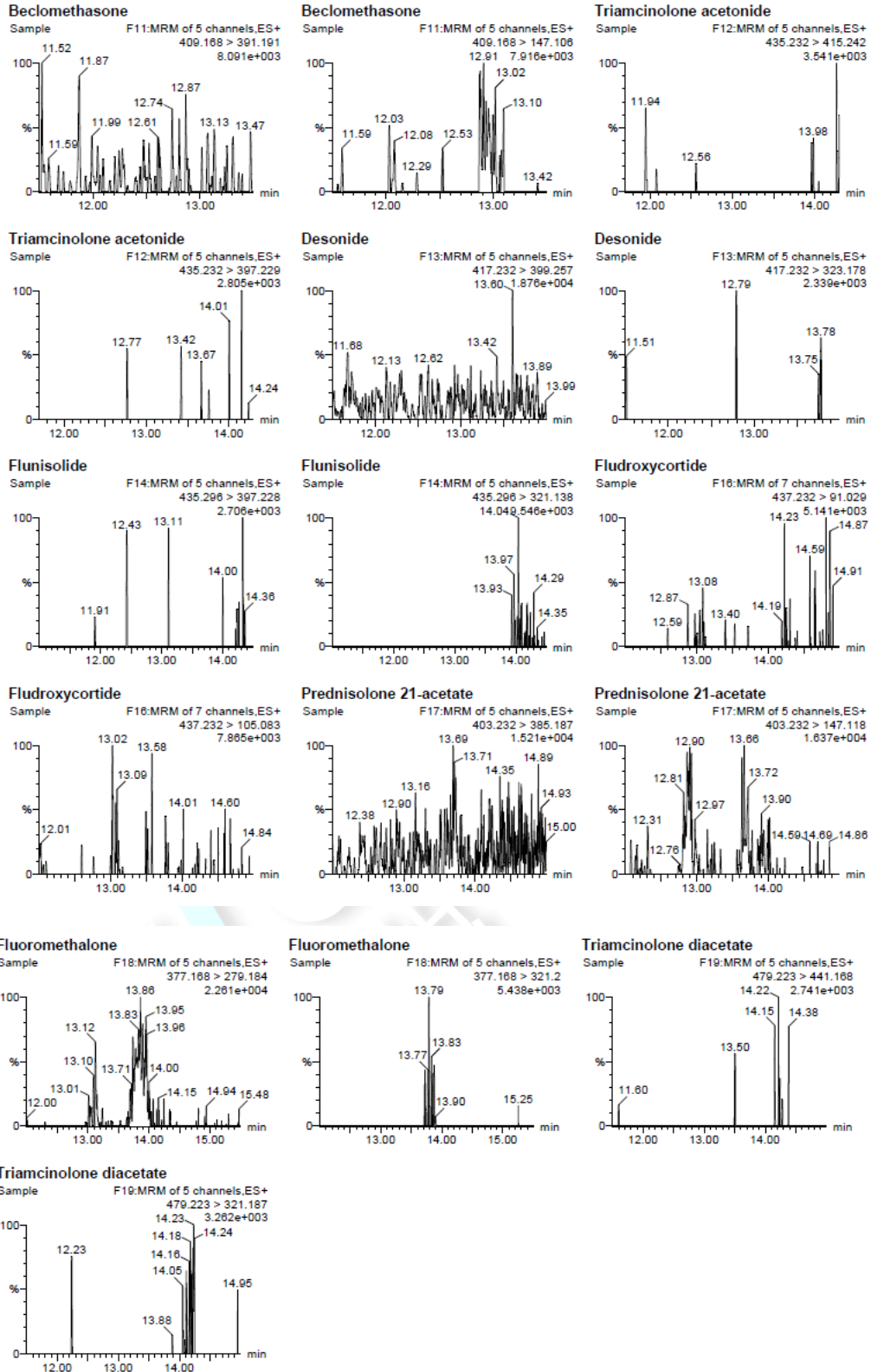




| Sample Text | Name | Trace | RT | Area | Primar... | ng/mL | 1° Ratio (A... | 2° Ratio... | plate a... |
|--------------|------------------|-------------|-------|--------|-----------|-------|----------------|-------------|------------|
| Method Blank | Beclomethas... | 409.168 ... | 12.60 | 6.066 | bb | 0.001 | 0.202 | | |
| Method Blank | Triamcinolon... | 435.232 ... | 12.71 | 4.985 | bb | 0.001 | | | |
| Method Blank | Desonide | 417.232 ... | 12.90 | 86.222 | bd | 0.017 | | | 37528... |
| Method Blank | Flunisolide | 435.296 ... | | | | | | | |
| Method Blank | Fludrocortidone | 437.232 ... | 13.28 | 21.588 | db | 0.156 | 0.377 | | 31653... |
| Method Blank | Prednisolone ... | 403.232 ... | 13.23 | 43.138 | db | 0.009 | 3.784 | | 13618... |
| Method Blank | Fluoromethal... | 377.168 ... | 13.39 | 10.414 | bb | 0.005 | 0.970 | | |
| Method Blank | Triamcinolon... | 479.223 ... | | | | | | | |

(2) 样品溶液

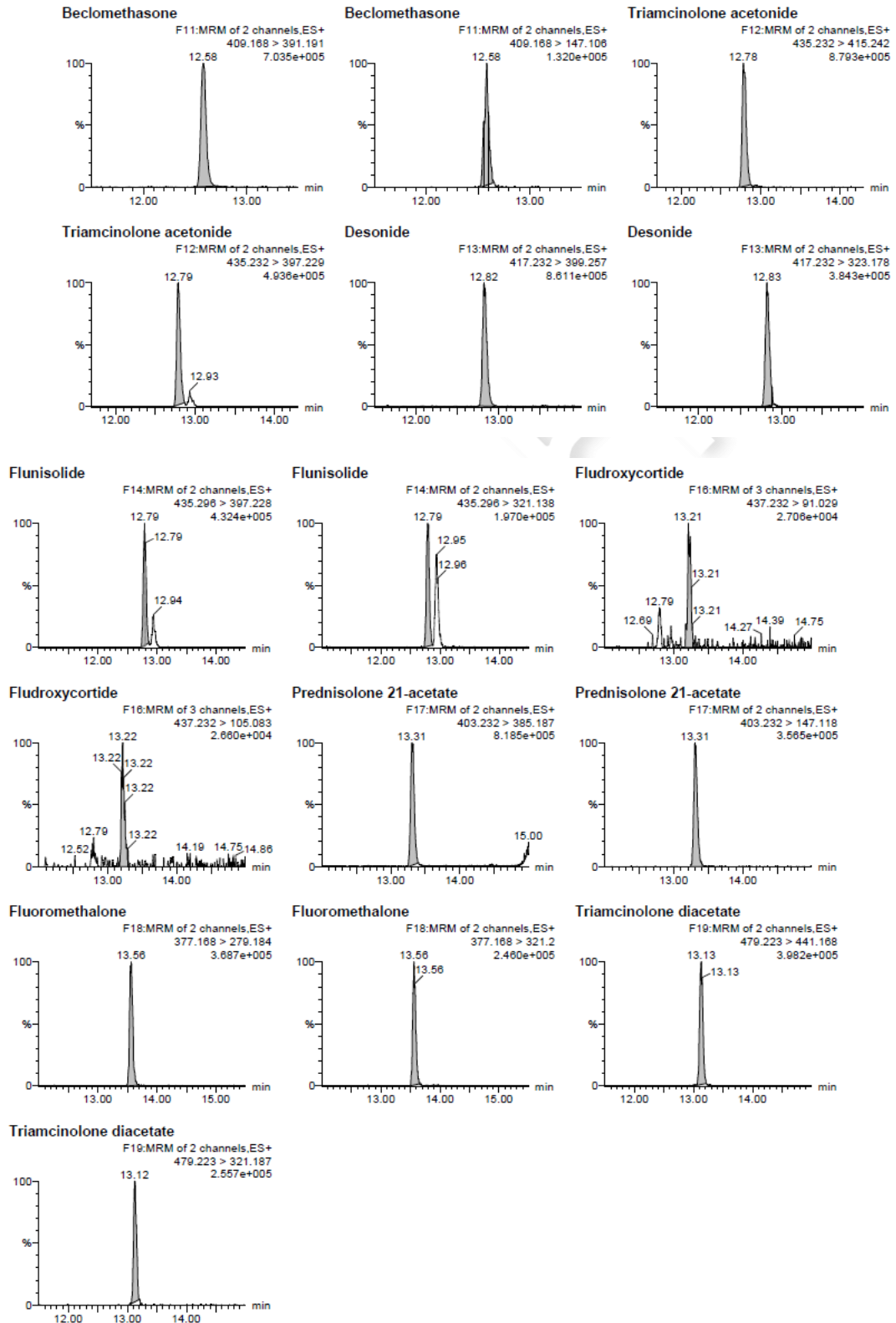




| Sample Text | Name | Trace | RT | Area | Primar... | ng/mL | 1° Ratio (A... | 2° Ratio... | plate a... |
|-------------|-----------------|-------------|-------|--------|-----------|-------|----------------|-------------|------------|
| Sample | Beclomethasone | 409.168 ... | 12.61 | 58.747 | bd | 0.014 | 2.144 | | 24425... |
| Sample | Triamcinolone | 435.232 ... | | | | | | | |
| Sample | Desonide | 417.232 ... | 12.88 | 94.906 | db | 0.019 | 4.249 | | 67946... |
| Sample | Flunisolide | 435.296 ... | | | | | | | |
| Sample | Fludrocortide | 437.232 ... | 13.40 | 9.167 | bb | 0.066 | 0.276 | | |
| Sample | Prednisolone | 403.232 ... | 13.24 | 53.013 | dd | 0.011 | 1.083 | | 24635... |
| Sample | Fluoromethalone | 377.168 ... | 13.53 | 7.066 | bd | 0.003 | 0.362 | | |
| Sample | Triamcinolone | 479.223 ... | 13.50 | 12.797 | bb | 0.005 | | | 10573... |



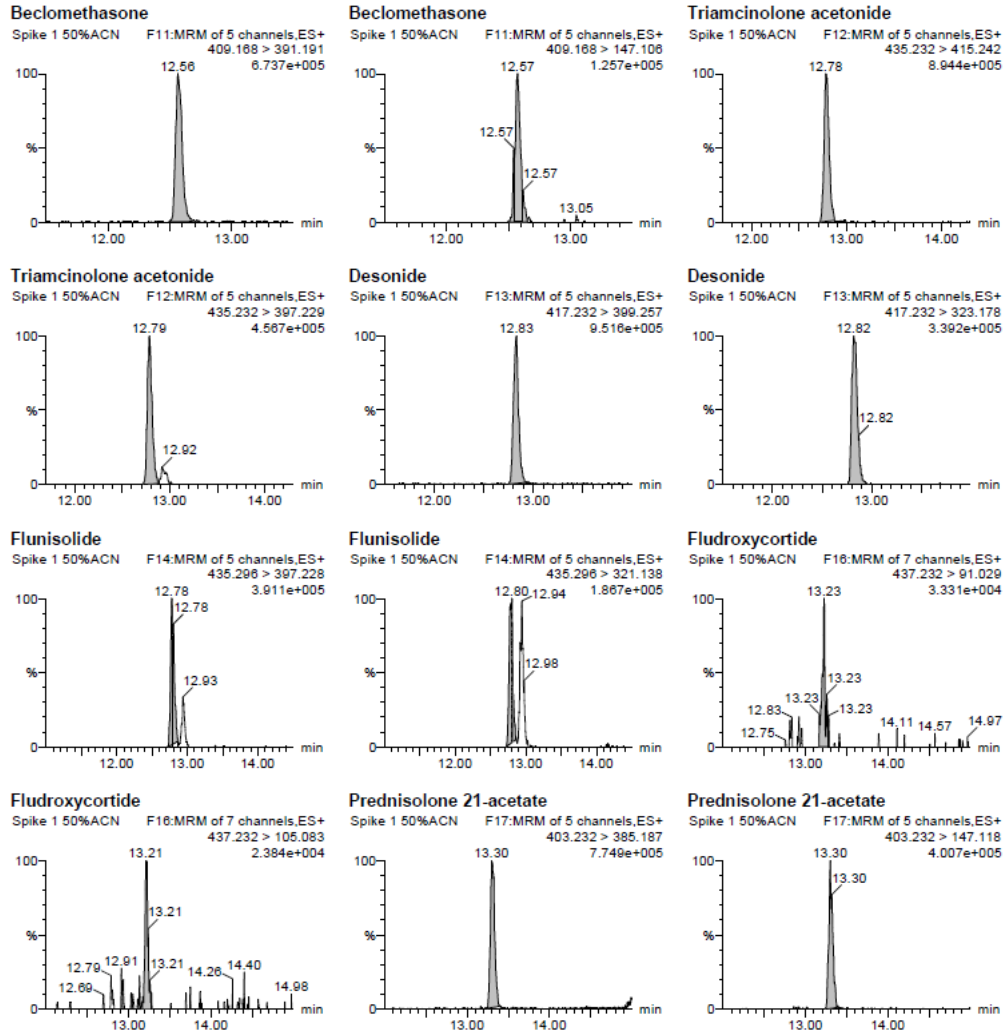
(3) 10 ng/mL 基质曲线

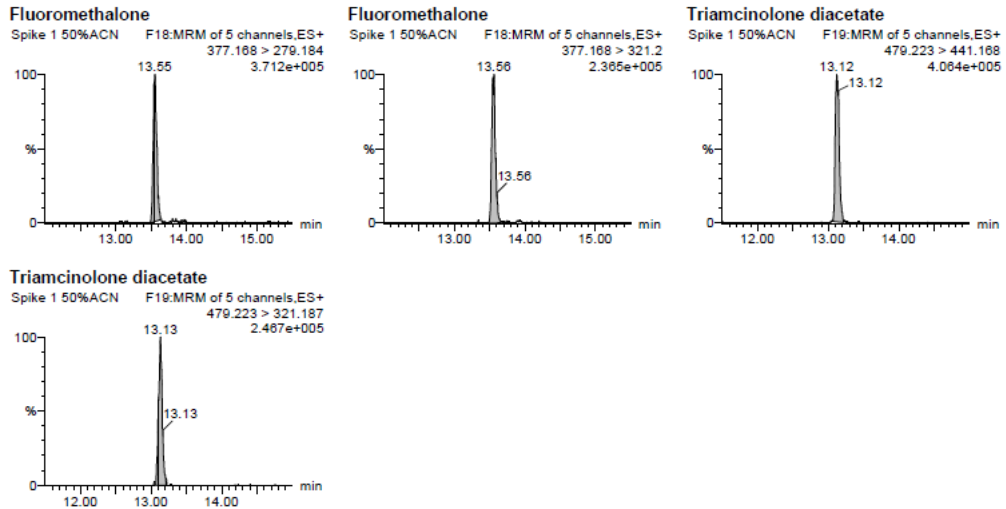


| Sample Text | Name | Trace | RT | Area | Primar... | ng/mL | 1° Ratio (A... | 2° Ratio... | plate a... |
|--------------------|-----------------|-------------|-------|-----------|-----------|--------|----------------|-------------|------------|
| Method Spike 50... | Beclomethas... | 409.168 ... | 12.58 | 40942.230 | bb | 10.000 | 6.529 | | 39594... |
| Method Spike 50... | Triamcinolon... | 435.232 ... | 12.78 | 50449.383 | MM | 10.000 | 2.016 | | 17524... |
| Method Spike 50... | Desonide | 417.232 ... | 12.82 | 50286.340 | bd | 10.000 | 2.420 | | 34323... |
| Method Spike 50... | Flunisolide | 435.296 ... | 12.79 | 21164.123 | MM | 10.000 | 2.004 | | 88715... |



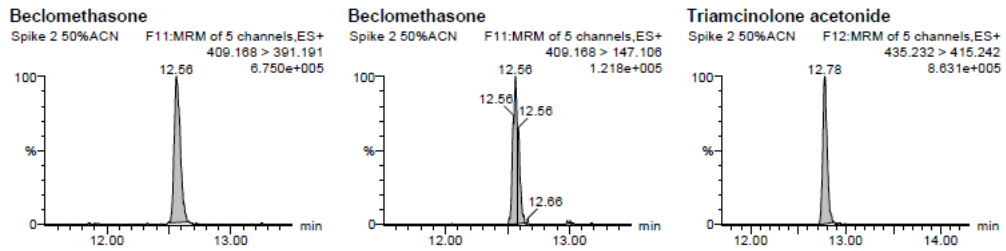
(4) 样品加标, 10 ng/mL。

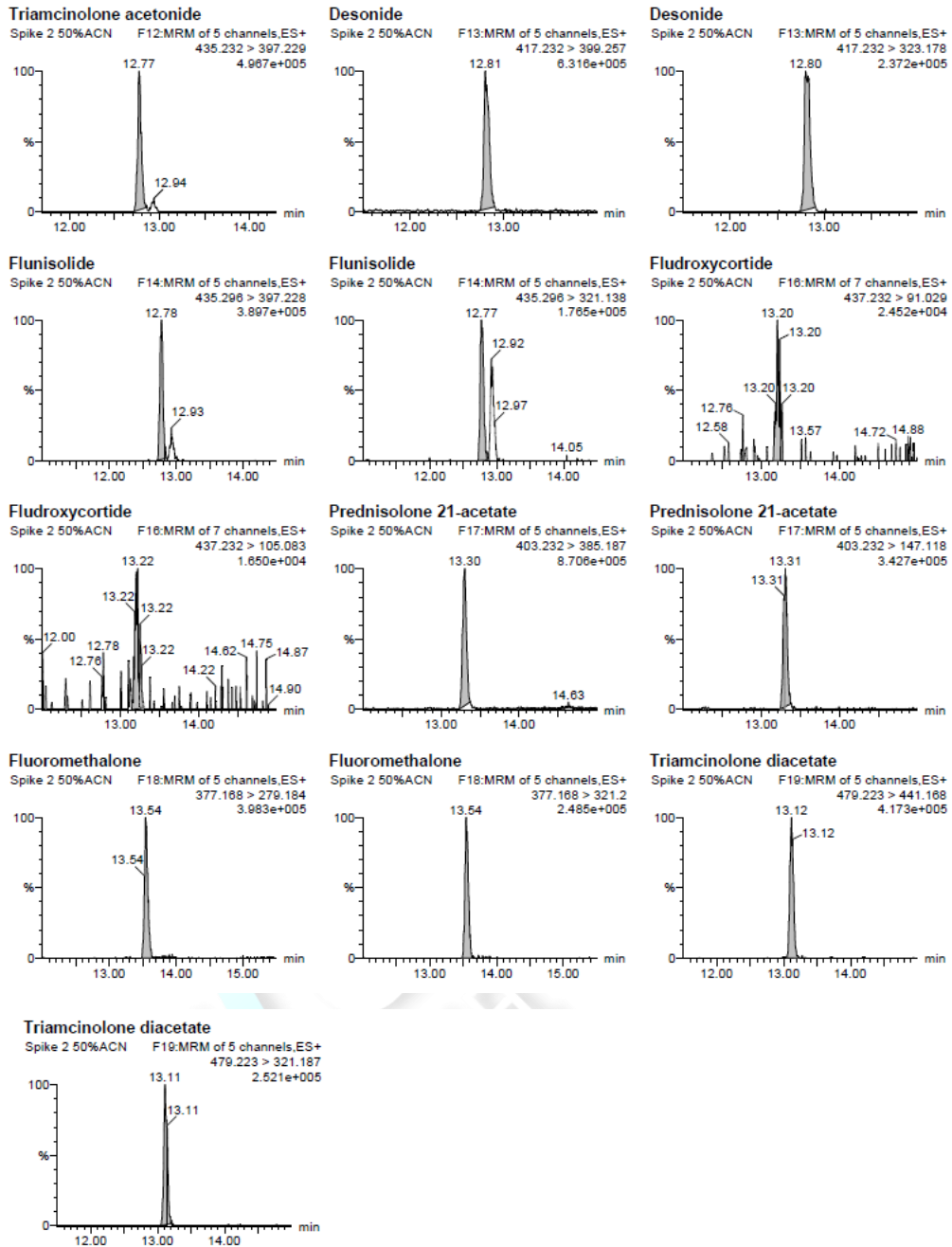




| Sample Text | Name | Trace | RT | Area | Primar... | ng/mL | 1° Ratio (A... | 2° Ratio... | plate a... |
|----------------|-----------------|-------------|-------|-----------|-----------|--------|----------------|-------------|------------|
| Spike 1 50%ACN | Beclomethas... | 409.168 ... | 12.56 | 39674.984 | bb | 9.690 | 6.052 | | 34504... |
| Spike 1 50%ACN | Triamcinolon... | 435.232 ... | 12.78 | 52101.449 | MM | 10.327 | 2.059 | | 46213... |
| Spike 1 50%ACN | Desonide | 417.232 ... | 12.83 | 53077.824 | bb | 10.555 | 2.405 | | 28930... |
| Spike 1 50%ACN | Flunisolide | 435.296 ... | 12.78 | 20913.107 | MM | 9.881 | 2.010 | | 13752... |
| Spike 1 50%ACN | Fludrocortide | 437.232 ... | 13.23 | 1277.408 | MM | 9.248 | 1.295 | | 59020... |
| Spike 1 50%ACN | Prednisolon... | 403.232 ... | 13.30 | 44584.371 | MM | 9.276 | 2.223 | | 33357... |
| Spike 1 50%ACN | Fluoromethal... | 377.168 ... | 13.55 | 20504.348 | MM | 9.186 | 1.464 | | 10175... |
| Spike 1 50%ACN | Triamcinolon... | 479.223 ... | 13.12 | 25046.922 | bd | 10.429 | 1.762 | | 22812... |

Name: 20230425-016, Date: 26-Apr-2023, Time: 13:06:57, Description: Spike 2 50%ACN, Conditions:





| Sample Text | Name | Trace | RT | Area | Primar... | ng/mL | 1° Ratio (A... | 2° Ratio... | plate a... |
|----------------|------------------|-------------|-------|-----------|-----------|--------|----------------|-------------|------------|
| Spike 2 50%ACN | Beclomethas... | 409.168 ... | 12.56 | 36611.711 | bb | 8.942 | 5.937 | | 12006... |
| Spike 2 50%ACN | Triamcinolon... | 435.232 ... | 12.78 | 43825.551 | MM | 8.687 | 2.034 | | 79578... |
| Spike 2 50%ACN | Desonide | 417.232 ... | 12.81 | 36947.941 | MM | 7.348 | 2.315 | | 13594... |
| Spike 2 50%ACN | Flunisolide | 435.296 ... | 12.78 | 19553.279 | MM | 9.239 | 1.961 | | 46966... |
| Spike 2 50%ACN | Fludrocortidone | 437.232 ... | 13.20 | 1147.539 | MM | 8.308 | 1.247 | | 33728... |
| Spike 2 50%ACN | Prednisolone ... | 403.232 ... | 13.30 | 45516.758 | MM | 9.470 | 2.494 | | 88813... |
| Spike 2 50%ACN | Fluoromethal... | 377.168 ... | 13.54 | 21616.213 | bd | 9.684 | 1.553 | | 12656... |
| Spike 2 50%ACN | Triamcinolon... | 479.223 ... | 13.12 | 24081.969 | bb | 10.027 | 1.729 | | 15820... |

● 结论:

使用月旭 Xtimate® UHPLC C18 2.1×150mm, 1.8μm 检测化妆水中倍氯米松、曲安奈德、地索奈德、氟尼缩松、氟氢缩松、泼尼松龙醋酸酯、氟米龙、曲安西龙双醋酸酯回收率为 93.2%、



95.1%、89.5%、95.6%、87.8%、93.7%、94.3%、102.3%，样品回收率满足要求。

日期: 2023/05/04



声明：除非另有说明，此报告结果仅对该测试样品负责。本报告未经公司许可，不可复制。
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