

# High Performance Liquid Chromatography

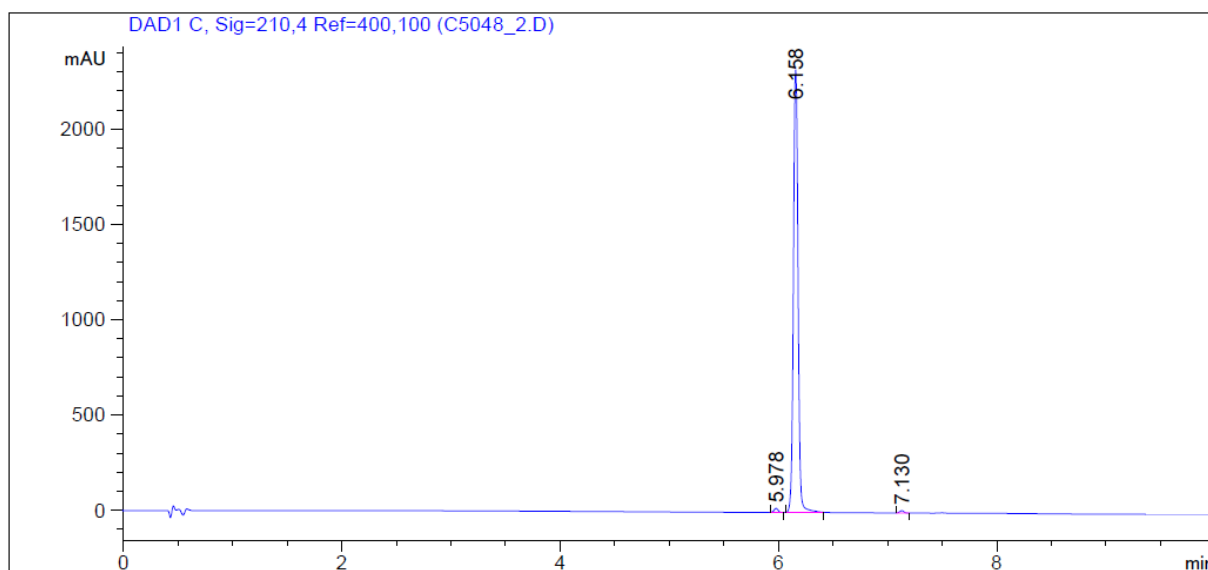
## 1. Analysis Information

|                 |                       |
|-----------------|-----------------------|
| Product Name:   | Ibuprofen             |
| Operator:       | David                 |
| Injection Date: | 4/18/2017 12:15:04 AM |
| Batch No.:      | 2                     |

## 2. HPLC Condition

| Column:     | Athena C18, 3 $\mu$ m, 2.1mm $\times$ 100 mm                                                                                                                                                                                                                                                                         |      |      |   |   |        |     |     |        |     |    |          |     |    |         |      |      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---|---|--------|-----|-----|--------|-----|----|----------|-----|----|---------|------|------|
| Solvent A:  | 0.1% H <sub>3</sub> PO <sub>4</sub> in 100% Acetonitrile                                                                                                                                                                                                                                                             |      |      |   |   |        |     |     |        |     |    |          |     |    |         |      |      |
| Solvent B:  | 0.1% H <sub>3</sub> PO <sub>4</sub> in 100% Water                                                                                                                                                                                                                                                                    |      |      |   |   |        |     |     |        |     |    |          |     |    |         |      |      |
| Gradient:   | <table border="1"> <thead> <tr> <th>Time</th><th>A</th><th>B</th></tr> </thead> <tbody> <tr> <td>0.0min</td><td>10%</td><td>90%</td></tr> <tr> <td>6.0min</td><td>95%</td><td>5%</td></tr> <tr> <td>10.0 min</td><td>95%</td><td>5%</td></tr> <tr> <td>10.0min</td><td>Stop</td><td>Stop</td></tr> </tbody> </table> |      | Time | A | B | 0.0min | 10% | 90% | 6.0min | 95% | 5% | 10.0 min | 95% | 5% | 10.0min | Stop | Stop |
| Time        | A                                                                                                                                                                                                                                                                                                                    | B    |      |   |   |        |     |     |        |     |    |          |     |    |         |      |      |
| 0.0min      | 10%                                                                                                                                                                                                                                                                                                                  | 90%  |      |   |   |        |     |     |        |     |    |          |     |    |         |      |      |
| 6.0min      | 95%                                                                                                                                                                                                                                                                                                                  | 5%   |      |   |   |        |     |     |        |     |    |          |     |    |         |      |      |
| 10.0 min    | 95%                                                                                                                                                                                                                                                                                                                  | 5%   |      |   |   |        |     |     |        |     |    |          |     |    |         |      |      |
| 10.0min     | Stop                                                                                                                                                                                                                                                                                                                 | Stop |      |   |   |        |     |     |        |     |    |          |     |    |         |      |      |
| Flow rate:  | 0.45ml/min                                                                                                                                                                                                                                                                                                           |      |      |   |   |        |     |     |        |     |    |          |     |    |         |      |      |
| Wavelength: | 210nm                                                                                                                                                                                                                                                                                                                |      |      |   |   |        |     |     |        |     |    |          |     |    |         |      |      |
| Volume:     | 10 $\mu$ l                                                                                                                                                                                                                                                                                                           |      |      |   |   |        |     |     |        |     |    |          |     |    |         |      |      |

## 3. Result



| Rank | RetTime(min) | Area(mAU*s) | Area %  |
|------|--------------|-------------|---------|
| 1    | 5.978        | 56.22086    | 0.8049  |
| 2    | 6.158        | 6895.49414  | 98.7263 |
| 3    | 7.130        | 32.73764    | 0.4687  |