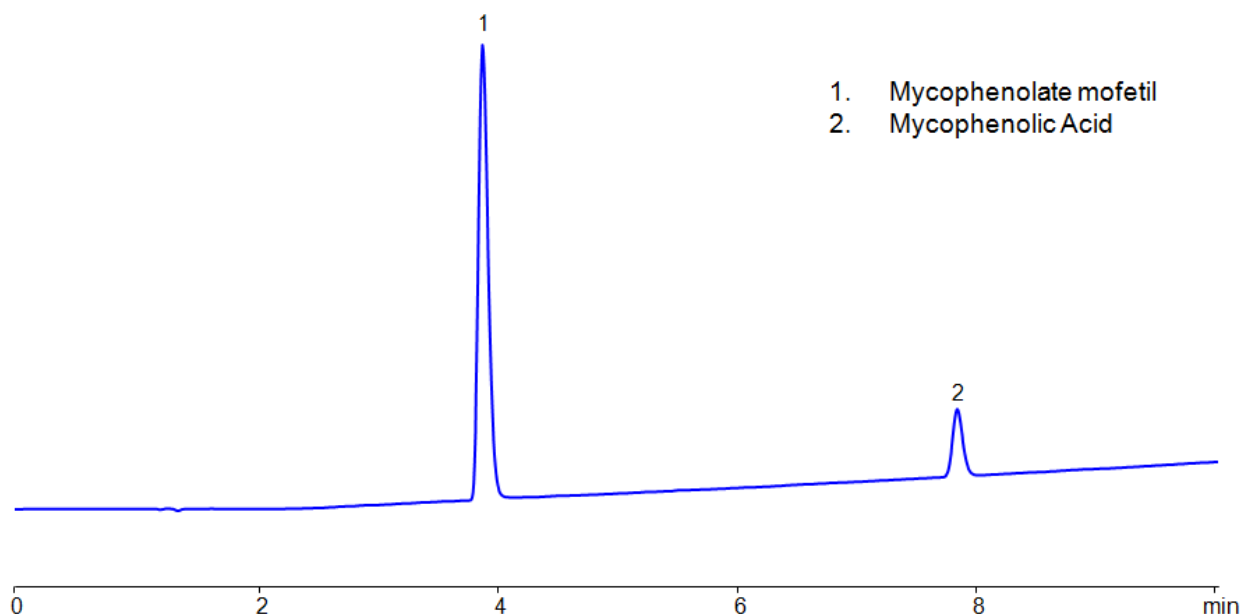


# HPLC Separation of Mixture of Mycophenolate mofetil and Mycophenolic Acid on Newcrom R1 Column

<https://sielc.com/hplc-separation-of-mixture-of-mycophenolate-mofetil-and-mycophenolic-acid>

## Chromatogram



**Column:** Newcrom R1  
**Column size:** 4.6 × 150 mm, 5 µm  
**Mobile phase:** Gradient MeCN - 30-70 % 10 min  
**Buffer:** H<sub>3</sub>PO<sub>4</sub> – 0.2%  
**Flow rate:** 1 mL/min  
**UV detection:** 220 nm

## Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Mycophenolic acid , Mycophenolate mofetil .

Mycophenolate mofetil and mycophenolic acid alongside other medicines are used as immunosuppressants to prevent organ rejection after a transplant. Both compounds can be retained and separated in HPLC using Newcrom R1 reverse-phase column. The analytical method's mobile phase consists of a gradient of acetonitrile (ACN) in water with phosphoric acid (H<sub>3</sub>PO<sub>4</sub>) buffer and using UV detection at 220nm.

## Method Parameters

|                           |                                                       |
|---------------------------|-------------------------------------------------------|
| <b>Mobile Phase</b>       | MeCN/H <sub>2</sub> O – 30/70%                        |
| <b>Buffer</b>             | H <sub>3</sub> PO <sub>4</sub> - 0.2%                 |
| <b>Flow Rate</b>          | 1.0 ml/min                                            |
| <b>Detection</b>          | UV, 220 nm                                            |
| <b>Class of Compounds</b> | Drug, Acid, Hydrophobic, Ionizable, Immunosuppressant |

## Analyzing Compounds

Mycophenolic acid, Mycophenolate mofetil

### HPLC Column Used

**Newcrom R1, 4.6 x 150 mm, 5 µm, 100 Å, dual ended**

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)