

# HPLC Application

ID No.: 19701

## Diclofenac from Plasma on Kinetex 2.6µm C18 75x4.6mm

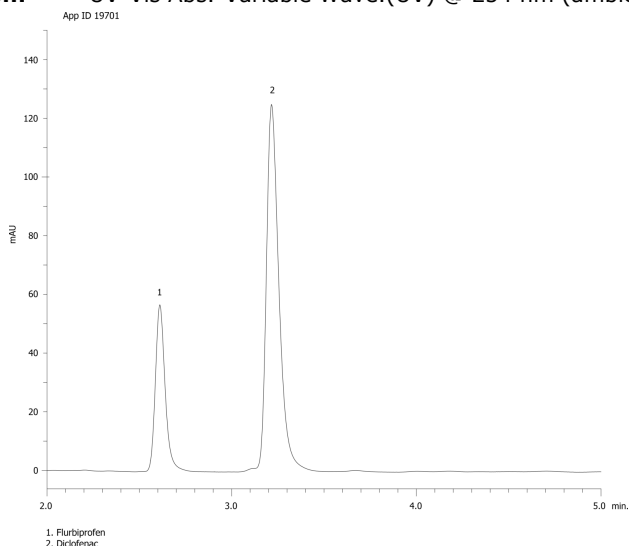
**Column:** Kinetex<sup>®</sup> 2.6 µm C18 100 Å, LC Column 75 x 4.6 mm, Ea  
**Dimensions:** 75 x 4.6 mm ID  
**Order No:** 00C-4462-E0  
**Elution Type:** Isocratic  
**Eluent A:** 63:37 Water (adjusted to pH 3.3 with phosphoric acid): Methanol  
**Gradient**

Step No.	Time (min)	Pct A
1	5	100

**Profile:**  
**Flow Rate:** 1.5 mL/min  
**Col. Temp.:** ambient  
**Detection:** UV-Vis Abs.-Variable Wave.(UV) @ 254 nm (ambient)



Products used in this application:



### ANALYTES:

- 1** Flurbiprofen  
Retention Time: 2.609 min
- 2** Diclofenac  
Retention Time: 3.214 min



# Sample Preparation Details

for HPLC Application ID No.: 19701

## Diclofenac from Plasma on Kinetex 2.6µm C18 75x4.6mm

### PRODUCT DESCRIPTION:

Strata<sup>™</sup>-X 33 µm Polymeric Reversed Phase, 30 mg / 1 mL, Tubes , 100/Pk

Order No.: 8B-S100-TAK

### SOLID PHASE EXTRACTION (SPE) PROCEDURE:

**Note:** The solvent volumes shown below are for a 30 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

#### Condition:

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#### Load:

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#### Wash:

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#### Dry:

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#### Elute:

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#### Final Prep and Analysis:

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Inject: 0 µL on HPLC UV-Vis Abs.-Variable Wave.(UV) @ 254 nm (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Flurbiprofen	0.16				
2 Diclofenac	0.05				

**Note:** This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals.  
Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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