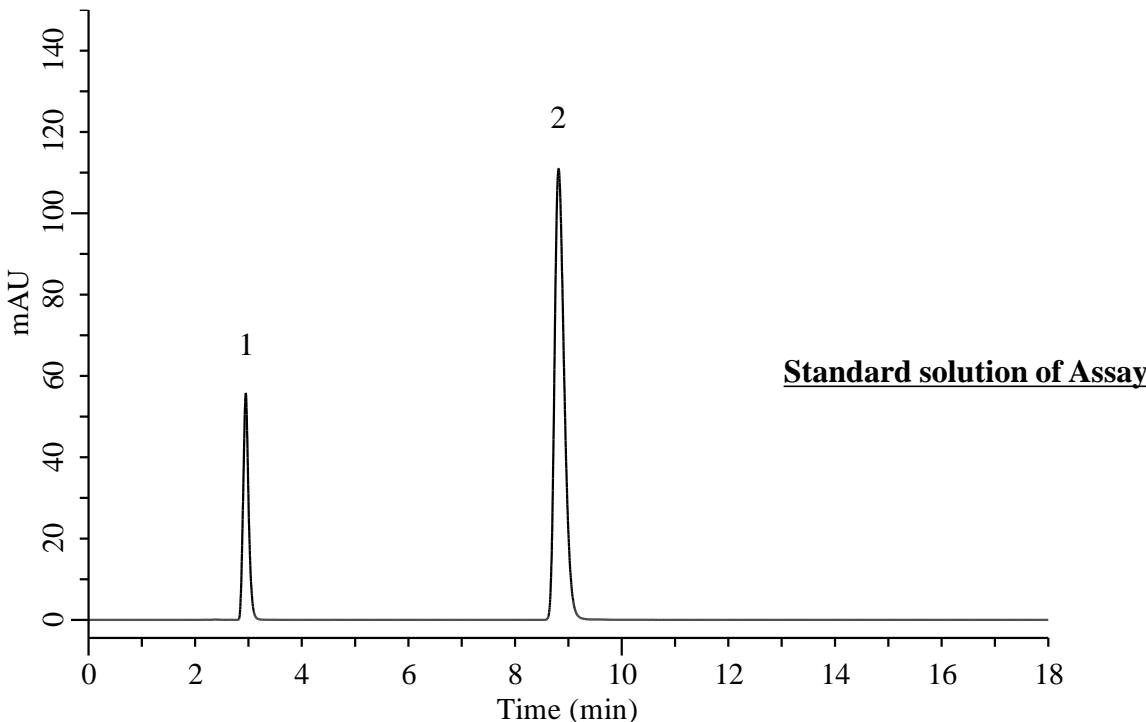


# Analysis of Paracetamol and Mefenamic acid

(Under the Condition of the draft for the Indian Pharmacopoeia, Mefenamic acid and Paracetamol Tablets)



## Conditions

System	:	Chromaster HPLC system (HITACHI)
Column	:	Inertsil ODS-3 (GL Sciences Inc.) (5 $\mu$ m, 250 x 4.6 mm I.D.)
Column Cat. No.	:	5020-01732
Eluent	:	A) CH <sub>3</sub> CN B) CH <sub>3</sub> OH C) Buffer* A/B/C = 40/10/50, v/v/v
Flow Rate	:	1.0 mL/min
Col. Temp.	:	25 °C
Detection	:	UV 285 nm
Injection Vol.	:	10 $\mu$ L
Sample	:	Standard

## Analyte:

1. Paracetamol	0.05 mg/mL
2. Mefenamic acid	0.05 mg/mL
Number of theoretical plates	
peak area of 1	: 3,843 ( $\geq$ 1500)
peak area of 2	: 10,983 ( $\geq$ 1500)
Tailing factor	
peak area of 1	: 1.17 ( $\leq$ 2.0)
peak area of 2	: 1.34 ( $\leq$ 2.0)
RSD of the	
peak area (%)(n=6) (1)	: 0.06 ( $\leq$ 2.0)
peak area (%)(n=6) (2)	: 0.13 ( $\leq$ 2.0)

\* Dissolve 8.37g of potassium dihydrogen orthophosphate and 6.71g of dipotassium hydrogen orthophosphate in 1000 ml of water, adjusted to pH 6.5 with dilute orthophosphoric acid.