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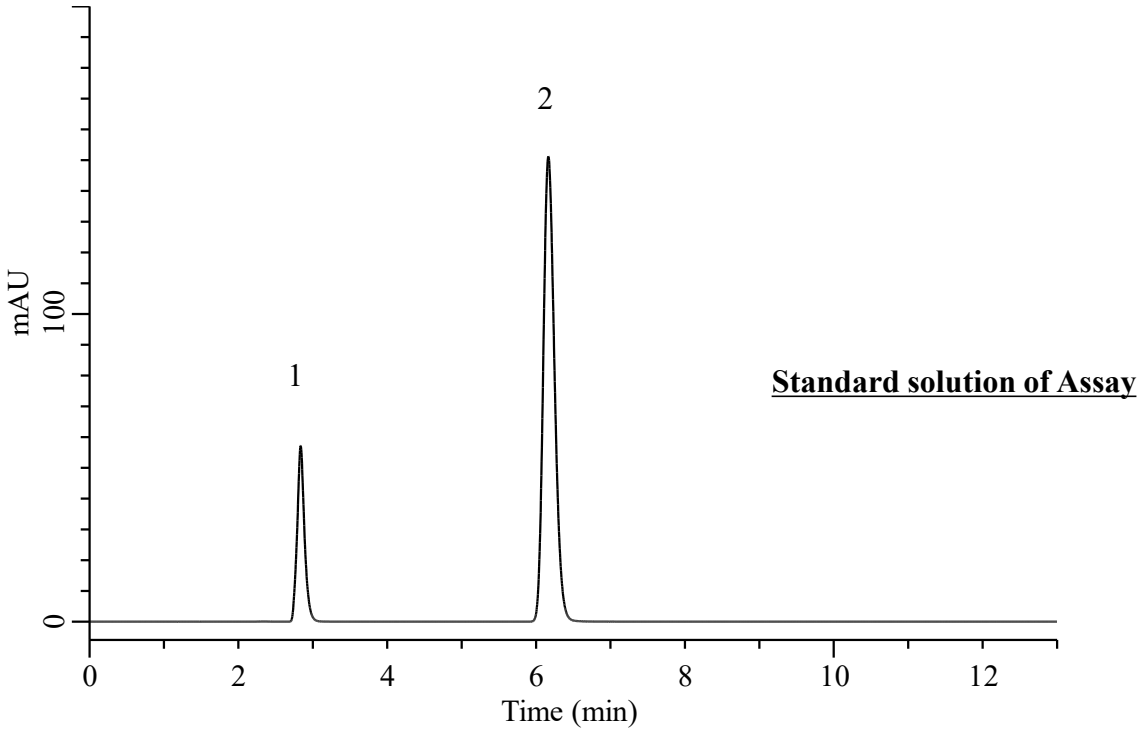
Analysis of Paracetamol and Mefenamic acid

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

Data No. LB880-7111



Conditions

System	:	Chromaster HPLC system (HITACHI)
Column	:	InertSustain C18 (GL Sciences Inc.) (5 μm, 250 x 4.6 mm I.D.)
Column Cat. No.	:	5020-07346
Eluent	:	A) CH_3CN B) CH_3OH C) Buffer* A/B/C = 40/10/50, v/v/v
Flow Rate	:	1.0 mL/min
Col. Temp.	:	25 ℃
Detection	:	UV 285 nm
Injection Vol.	:	10 μL
Sample	:	Standard

Analyte:

1. Paracetamol	0.05 mg/mL
2. Mefenamic acid	0.05 mg/mL

Number of theoretical plates	
peak area of 1	: 4,027 (≧1,500)
peak area of 2	: 7,765 (≧1,500)
Tailing factor	
peak area of 1	: 1.16 (≦ 2.0)
peak area of 2	: 1.21 (≦ 2.0)
RSD of the	
peak area (%)(n=6) (1)	: 0.09 (≦ 2.0)
peak area (%)(n=6) (2)	: 0.05 (≦ 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.