



PHARMACEUTICAL DRUGS

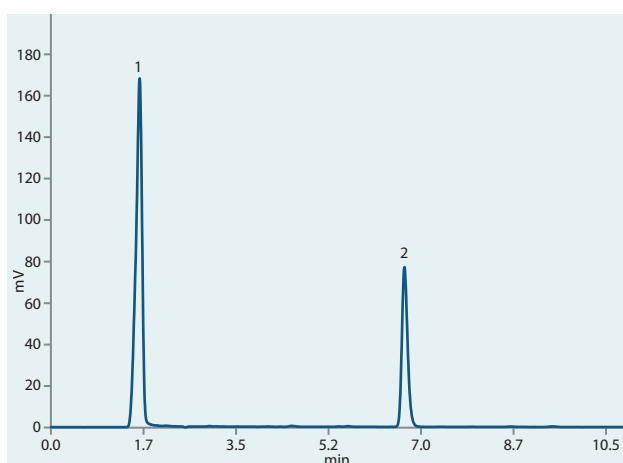
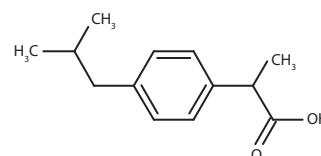
INTRODUCTION

Ibuprofen is a substance from a group of non-steroidal anti-inflammatory drugs. In order for the drug release to be targeted on the basis of pH change (gradual release for up to 30 days), binding to a polymeric carrier is used.

Substance: Ibuprofen, Brufen, Motrin, CAS Number 15687-27-1

Synonym: 4-Isobutyl- α -methylphenylacetic acid, α -Methyl-4-(2-methylpropyl)benzeneacetic acid

Formula: 2-(4-Isobutylphenyl)propanoic acid



Standard mixture

Column	ARION® Plus C18, 5.0 μ m
Dimensions	250 mm $\times$ 4.6 mm
Part number	ARI-5720-LM46
Mobile Phase	ACN/Water 70/30 (v/v) + 0.1 % formic acid isocratic elution
Flow rate	1.0 ml/min
Temperature	Ambient
Detection	UV @265 nm
Analytes	1. Ibuprofen on polymer carrier 2. Ibuprofen