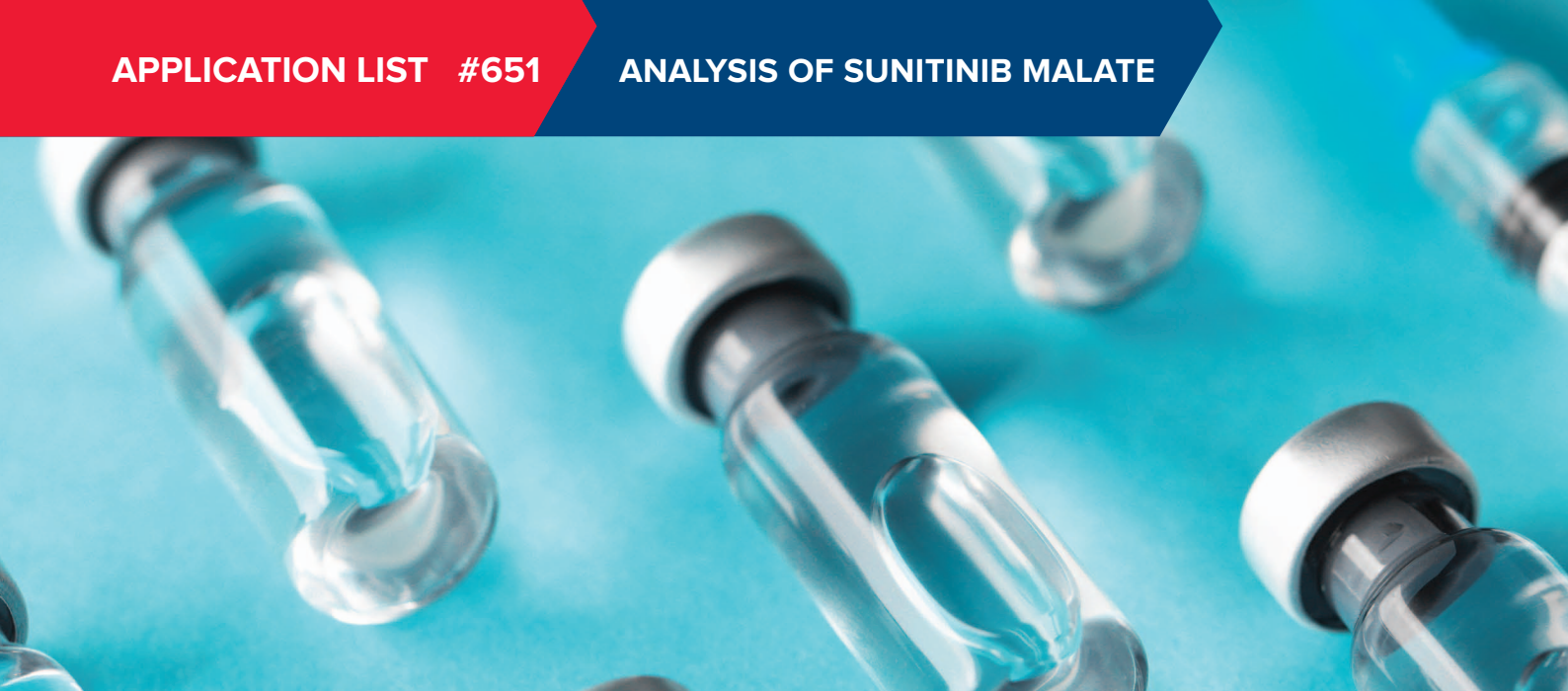




ANALYSIS OF SUNITINIB MALATE

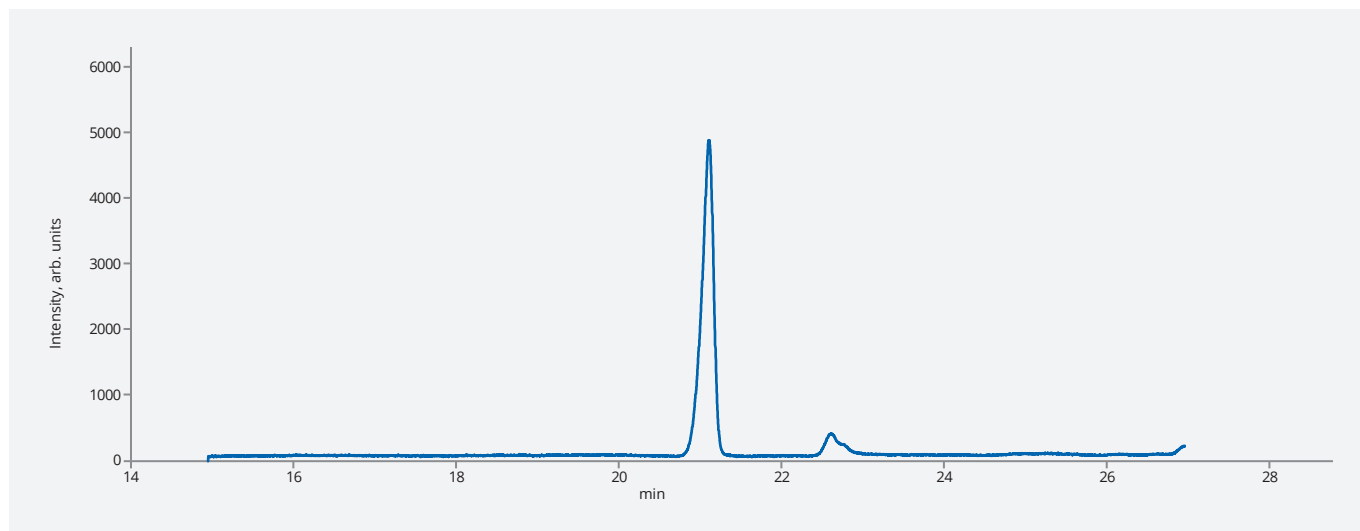
ABSTRACT

This application presents a simple and reliable analytical method for determination of sunitinib malate which can be used in quality control analysis as well as for drug monitoring in vivo.

INTRODUCTION

Sunitinib malate is a small molecule used as a kinase inhibitor in the targeted cancer therapy for treatment of renal cell carcinoma (RCC), gastrointestinal stromal tumors (GIST) and pancreatic neuroendocrine tumors (pNET). Development of robust and sensitive chromatographic method for quantification of sunitinib at low concentration in different matrices such as serum, plasma, urine is highly demanded.

Analysis of sunitinib malate

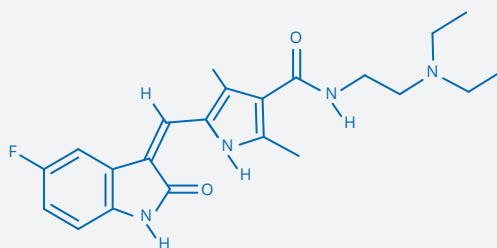
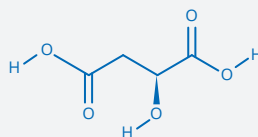


Chromatogram of Sunitinib malate (concentration 2.5 µg/mL, RT 22.5 min) on Astra[®] C18-HE column

Analysis of sunitinib malate

LC-MS Method

Column	ASTRA® C18 HE, 5 µm		
Dimensions	150 mm × 4.6 mm		
Part number	AST-5732-LK46		
Mobile phase	A: 3.85 g/L solution of ammonium acetate adjusted to pH 5.0 with acetic acid B: ACN		
Gradient elution	Time	A (%)	B (%)
	0	90	10
	2	90	10
	38	37	63
	38.1	90	10
	45	90	10
Flow rate	1.0 mL/min		
Temperature	45 °C		
Detection	UV@268 nm		
Analytes	1. Sunitinib malate, CAS: 341031-54-7		



Sunitinib malate



The premium product brand of Chromservis s.r.o.



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