



DETERMINATION OF **LYSINE AND ITS SALTS** IN FODDER ADDITIVES

Lumex Method M 04-87-2016

INTRODUCTION

The method is used for the determination of the mass fraction of free lysine and its salts (including lysine hydrochloride and lysine sulfate) in **fodder additives**.

For the determination of free methionine, threonine and tryptophan in fodder additives use the method M 04-63-2016 (Lumex Instruments set, order No 0300002780).

For the determination of the mass fraction of lysine in feedstuffs, compound feeds, foddors, premixes, and all types of feed raw materials use the method M 04-38-2009 (Lumex Instruments kit, order No 0300002027).

MEASUREMENT METHOD

The measurement method is based on capillary zone electrophoresis with indirect UV detection at the wavelength of 267 nm.

MEASUREMENT RANGE

The measurement range for lysine is **30–100%**.

EQUIPMENT AND REAGENTS

The CAPEL capillary electrophoresis system is used in measurements. Data acquisition, collection, processing and output are performed using a personal computer running under WINDOWS® XP/7/8/10 operating system with installed dedicated software package ELFORUN.

Lumex Instruments set, order **No 0300002726**.

EXAMPLES OF REAL ANALYSES

BGE: benzimidazole, with tartaric acid

Capillary: $L_{\text{eff}}/L_{\text{tot}}$ 50/60 cm, ID 75 μm

Injection: 150 mbar x sec

Voltage: + 25 kV

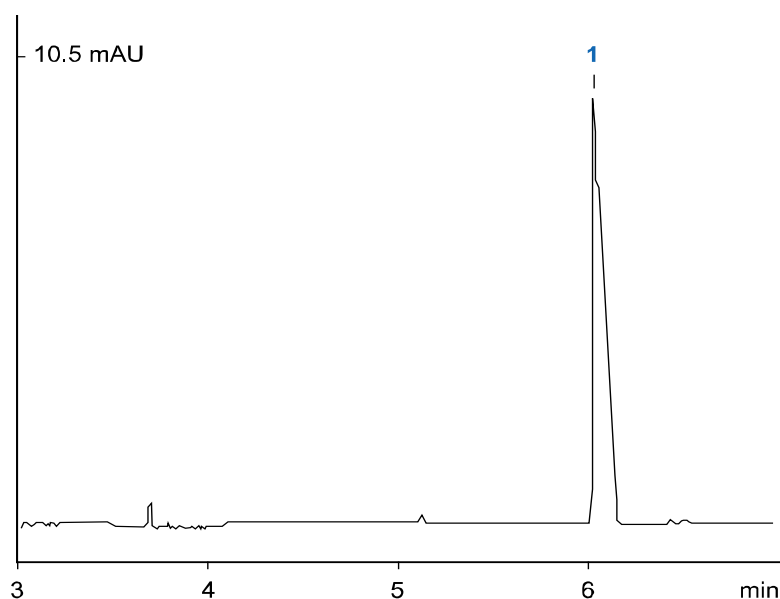
Temperature: + 20 °C

Detection: 267 nm

Sample: fodder additive
(lysine sulfate)

Measurement results:

1 – lysine (55.2%)



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To get more specific information, please contact the representative by sales@lumexinstruments.com