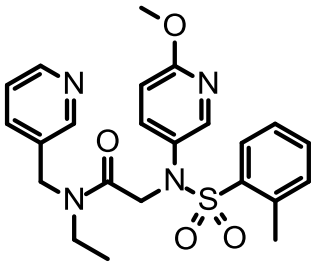
Certificate of Analysis

RC TRITEC
Your Labeling Company.

Compound	[H-3]EMPA
Molecular formula (unlabelled)	$C_{23}H_{26}N_4O_4S$
Molecular weight (unlabelled)	454.54 g/mol
Structure	



Lot number	XX-xxxx-xxxx
Date of analysis	XX month year
Radiochemical purity	> 99% (HPLC)
Specific activity	103.2 Ci/mmol (3.82 TBq/mmol) (determined by MS using an iterative residue correction method (^{13}C correction))
Concentration	1.0 mCi/ml (37.0 MBq/ml) in EtOH
Packaging	1 mCi (37 MBq) in 1 ml EtOH
Recommended storage cond.	Store below –60 °C

Chromatographic data

HPLC-column	Waters Sunfire C18 (5 µm), 4.6 x 250 mm
Mobile phase	A: water + 0.05% TFA; B: MeCN + 0.05% TFA
Conditions	0 min 5% B; 3 min 5% B; 23 min 95% B; 30 min 95% B, 30.5 min 5% B.
Flow rate	1.0 ml/min
Sample	3.91 mCi/ml (145 MBq/ml) in EtOH
Injection	2 µl (7.82 µCi, 289 KBq)
UV-detection	254 nm
Temperature	30 °C

Radio detector	Berthold LB 513
Cocktail	Zinsser Quickszint Flow 302
Flow rate	2.0 ml/min
Retention time	13.87 min (UV); 13.88 min (radio detector); The delay between UV and radio signal is due to the serial detection system.

Note: The compound is dissolved in EtOH and was isolated from the HPLC eluent by solid phase extraction under neutral conditions. The mass spectrum is consistent with the proposed structure and a non-labeled reference; the HPLC retention time is consistent with a non-labeled reference. Actual position of labels not verified. For research and development use only, not for use in humans.

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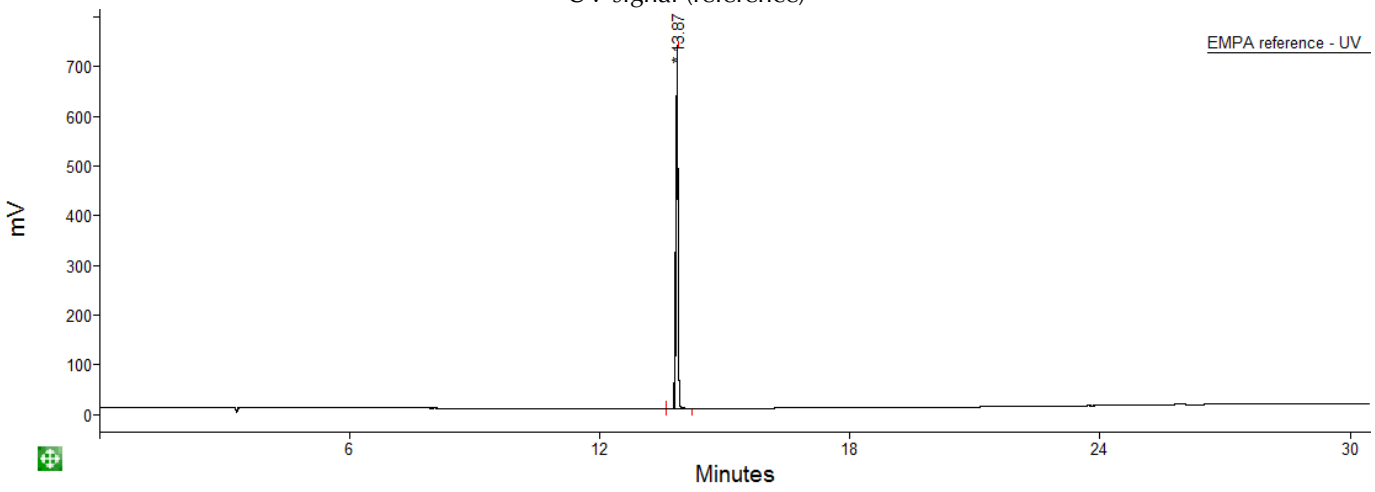
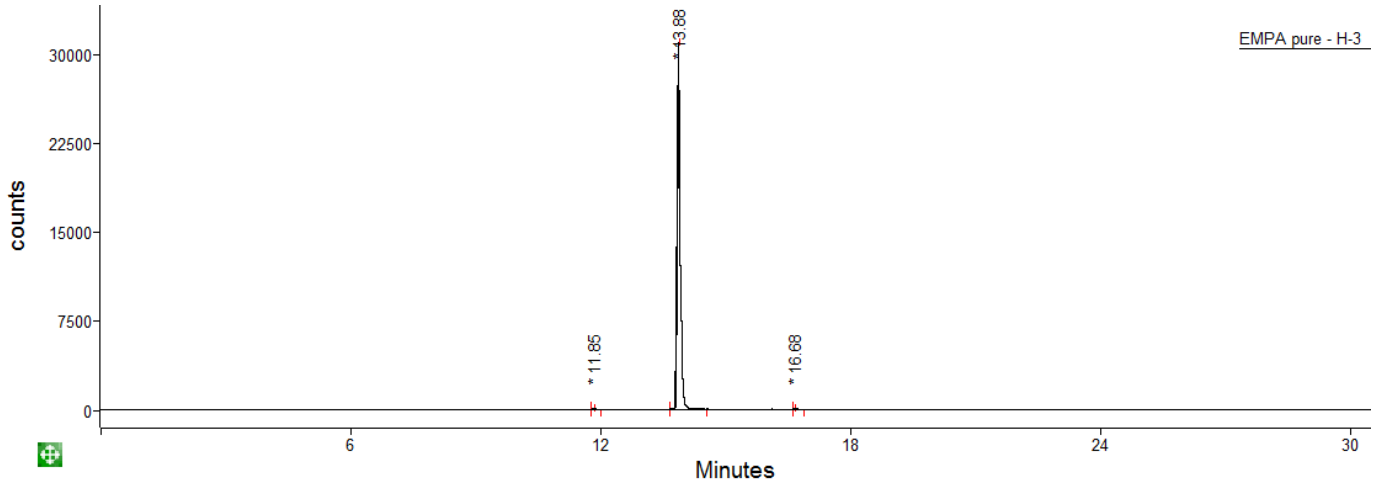
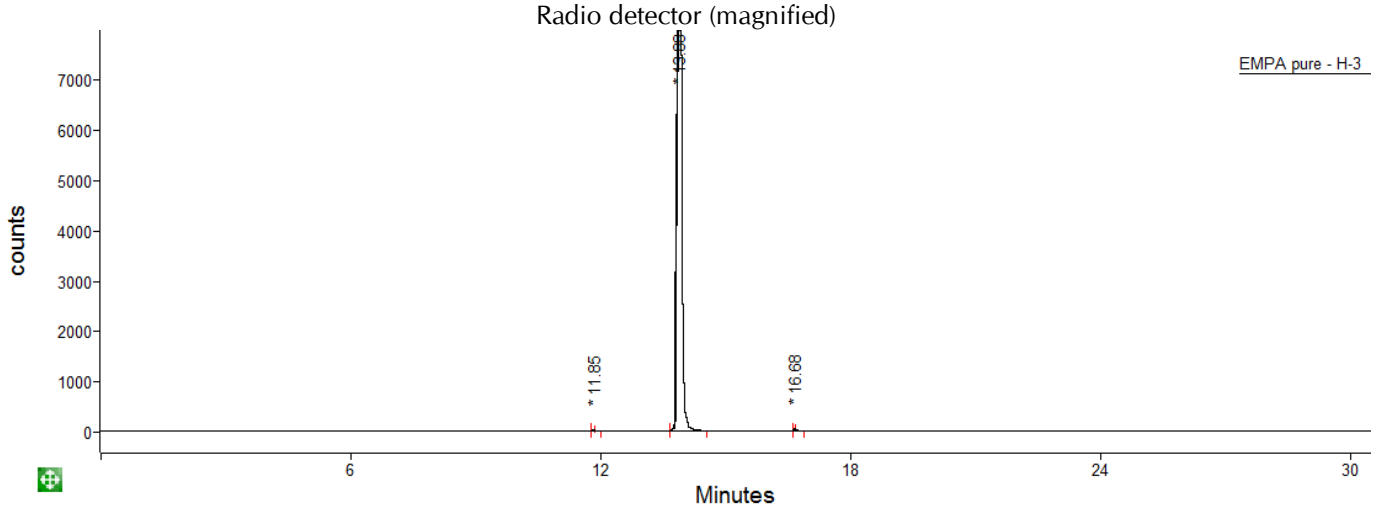
UV signal (reference)



Radio detector



Radio detector (magnified)



Results radio detector:

#	Peak name	Rt.	Area	% Area
1		11.85	165.00	0.10
2	**EMPA**	**13.88**	**160664.00**	**99.75**
3		16.68	235.00	0.15
Sum			161064.00	100.00

RC TRITEC LTD.

Signature of a PhD