

Certificate of Analysis

Product Name: Tebufenpyrad
PESTANAL™, analytical standard

Product Number: 46438

Batch Number: BCCJ6273

CAS Number: 119168-77-3

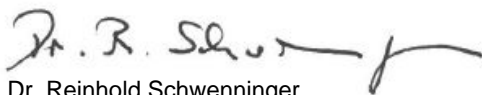
Formula: C₁₈H₂₄ClN₃O

Formula Weight: 333.86

Expiration Date: OCT 2027

Quality Release Date: 10 NOV 2022

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	WHITE TO FAINT YELLOW TO FAINT BEIGE	WHITE
APPEARANCE (FORM)	POWDER OR CRYSTALS	POWDER
PURITY (HPLC AREA %)	≥ 98.0 %	98.8 %
MELTING POINT	61 - 66 C	63 C
WATER	≤ 1.0 %	0.3 %
PROTON NMR SPECTRUM	CONFORMS TO STRUCTURE	CONFORMS



Dr. Reinhold Schwenninger

Quality Assurance

Buchs, Switzerland

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

The vibrant M and Sigma-Aldrich are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. Detailed information on trademarks is available via publicly accessible resources.
© 2018 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.

The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada.



Vanquish™ Flex UHPLC

Pump : VF-P20-A
Autosampler: VF-A10-A
Detector: VF-D11-A
Column: Supelco Ascentis Express C18, 2.7 um
Column Dim.: 50 x 2.1 mm
Mobile Phase:
 %A : ACN
 %B : %B
 %C : %C
 %D : H3PO4 0.01M
Gradient : see Figure 1
Sample Prep.: 1 mg sample in 1 ml acetonitrile:water 1:1

Injection Time: 08.11.22 15:59
Processed By: murthale
Vial Number: Y:C7
Column S/N: -
Sample Type: Unknown
Injection Volume: 1.0 µl
Flow: 1.00 ml/min
Column Temp. (°C): 35.00
Run Time: 6.00 min

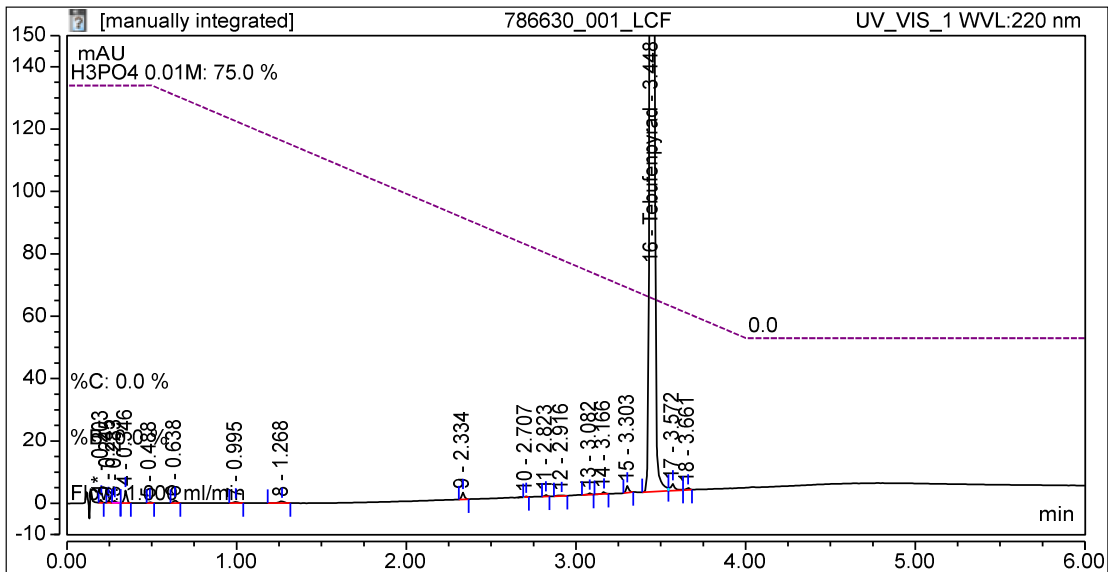


Figure 1: Zoomed Chromatogram

No.	Ret. Time min	Peak Name	Area mAU*min	Height mAU	Amount	Rel. Area %
1	0.203		0.01457	1.32503	n.a.	0.05
2	0.245		0.01222	0.76555	n.a.	0.04
3	0.283		0.00966	0.68603	n.a.	0.03
4	0.346		0.05836	4.03013	n.a.	0.20
5	0.488		0.00519	0.27053	n.a.	0.02
6	0.638		0.01898	0.86113	n.a.	0.06
7	0.995		0.01174	0.36802	n.a.	0.04
8	1.268		0.02404	0.58584	n.a.	0.08
9	2.334		0.03871	2.15302	n.a.	0.13
10	2.707		0.00368	0.25753	n.a.	0.01
11	2.823		0.00908	0.53426	n.a.	0.03
12	2.916		0.00753	0.14602	n.a.	0.03
13	3.082		0.00964	0.47758	n.a.	0.03
14	3.166		0.01339	0.64102	n.a.	0.05
15	3.303		0.03850	2.19496	n.a.	0.13
16	3.448	Tebufenpyrad	29.06933	1580.41980	n.a.	98.78
17	3.572		0.06913	2.21415	n.a.	0.23
18	3.661		0.01508	0.66500	n.a.	0.05
Total:			29.42883	1598.59560		100.00

Table 1: Integration

The vibrant M and Sigma-Aldrich are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates. Detailed information on trademarks is available via publicly accessible resources.

© 2018 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.

