



672959 Lot: 805560

Gentamicin sulfate salt hydrate

1. General Information

Formula Expiry Date 01 Oct 2025

Mol. Weight 0.00 g/mol Store at 4°C (in the dark)

CAS-No. 1405-41-0

2. Batch Analysis

Identity confirmed by LC-MS

Overall Purity 92.20 % (g/g) Expanded Uncertainty 0.60 % (g/g)

Assay Purity (HPLC) 98.51 % (g/g) Uncertainty 0.19 % (g/g)

Water 6.41 % (g/g)

Gentamicin C1 26.0% Gentamicin C1a 27.6% Sum of C2+C2a 46.4% Sulfate 30.6% Water 6.41%

Certified on 05 Oct 2021

by Jan Heumann

The overall purity is calculated by: Purity(%) = Assay purity*(100-water content-impurities)/100

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).



Article 672959 Lot-No. 805560

Column L=100mm, ID=4.6mm; Kinetex C18, 100A, 2.6µm

Eluent A Acetonitrile + 0.1% Formic acid
Eluent B Water + 0.1% Formic acid

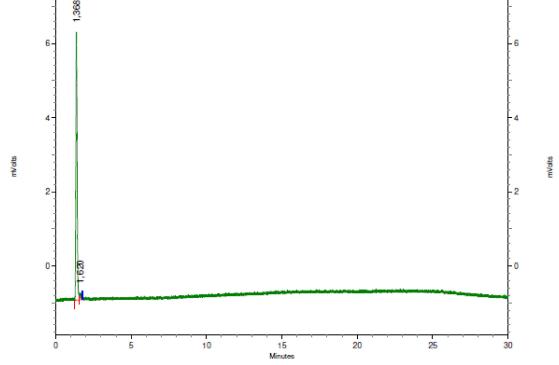
Gradient time %A %B 0min 0 100

22.5min 90 10 25min 90 10

Flow 0.7 ml min-1

Detector ELSD Injection-Volume 5 µI

Sample 1.0 mg ml-1 (Water)



ELSD AD1 -Analog Board 1 Results

Retention Time	Height	Area	Area Percent
1,368	7230	42718	98,567
1,620	125	621	1,433

Totals			
	7355	43339	100,000

Version	Article	Lot	Reason for Change	Date
3.0	672959	805560	Format update	05 Oct 2021





672968 Lot: 796692

Oxytetracycline hydrochloride

1. General Information

Formula C22H25CIN2O9 Expiry Date 01 Jul 2025

Mol. Weight 496.89 g/mol Store at 4°C (in the dark)

CAS-No. 2058-46-0

2. Batch Analysis

Identity confirmed by LC-MS

Overall Purity 91.46 % (g/g) Expanded Uncertainty 0.66 % (g/g)

Assay Purity (HPLC) 95.22 % (g/g) Uncertainty 0.17 % (g/g)

Water 3.95 % (g/g)

Sel

Certified on 06 Jul 2020

by Stefanie Selbmann

The overall purity is calculated by: Purity(%) = Assay purity*(100-water content-impurities)/100

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).



Article 672968 Lot-No. 796692

Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm

Eluent A Acetonitrile

Eluent B 0.1 % Phosphoric acid (Water)

 Gradient
 time
 %A
 %B

 0min
 0
 100

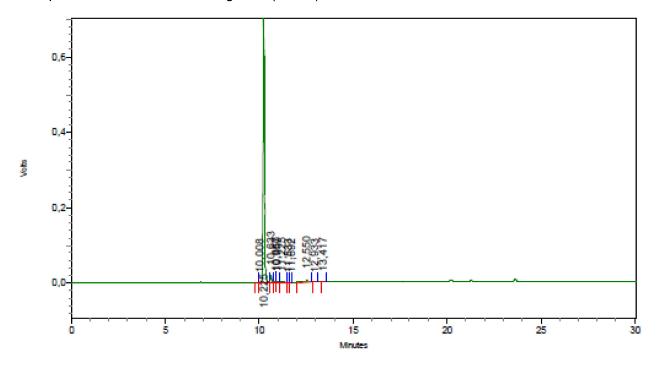
 22.5min
 90
 10

 25min
 90
 10

Flow 1.0 ml min-1 Detector UV-220nm

Injection-Volume 5 μl

Sample 0.5 mg ml-1 (Water)





Detector A - 1 (220nm)

Retention Time	Height	Area	Area Percent
10,008	339	2107	0,05
10,225	707712	4017676	95,21
10,633	19983	102058	2,42
10,867	3924	18890	0,45
10,950	3655	18756	0,44
11,225	1441	14820	0,35
11,533	141	833	0,02
11,692	81	327	0,01
12,550	6539	37802	0,90
12,933	383	3068	0,07
13,417	659	3312	0,08
Totals			
	744857	4219649	100,00

Version	Article	Lot	Reason for Change	Date
1.0.0	672968	796692	Initial Version	06 Jul 2020
1	672968	796692	Text Update	10 Jan 2022
2	672968	796692	correction Overall Purity	25 May 2022



672980 Lot: 803572

Trimethoprim

1. General Information

Formula C14H18N4O3 Expiry Date 01 Jul 2026

Mol. Weight 290.32 g/mol Store at 4°C (in the dark)

CAS-No. 738-70-5

2. Batch Analysis

Identity confirmed by LC-MS					
Overall Purity	99.57 % (g/g)	Expanded Uncertainty	0.34 % (g/g)		
Assay Purity (HPLC) Water	99.98 % (g/g) 0.10 % (g/g)	Uncertainty	0.17 % (g/g)		
Residual Solvents	0.03 % (g/g)	Uncertainty	0.01 % (g/g)		
Inorganic Impurities	0.28 % (g/g)	Uncertainty	0.01 % (g/g)		

Certified on 22 Jun 2021

by Jan Heumann

The overall purity is calculated by: Purity(%) = Assay purity*(100-water content-impurities)/100

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty. The material in the vial can be used multiple times, but it is strongly recommended, that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed, if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).

The HPC Standards GmbH, accredited by DAkkS as indicated by the accreditation number D-RM-20844-01-00, has shown competence based on ISO 17034:2017 for production of reference materials in form of organic pure substances and their solutions (for further specification see the annex of the accreditation certificate).



Article 672980 Lot-No. 803572

Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm

Eluent A Acetonitrile

Eluent B 0.1 % Phosphoric acid (Water)

 Gradient
 time
 %A
 %B

 0min
 0
 100

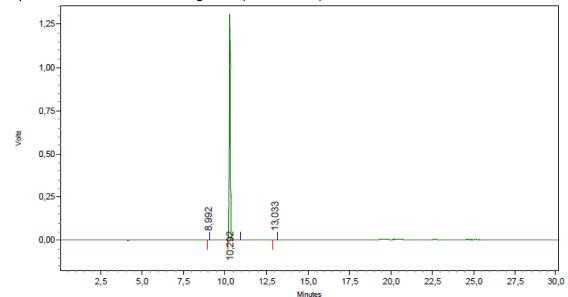
 22.5min
 90
 10

 25min
 90
 10

Flow 1.0 ml min-1 Detector UV-220nm

Injection-Volume 5 µI

Sample 0.2 mg ml-1 (Acetonitrile)



Detector A - 1 (220nm)

Height	Area	Area Percent
106	606	0,01
1307752	7085630	99,98
111	684	0,01
	106 1307752	106 606 1307752 7085630

Totals			
	1307969	7086920	100,00

Version	Article	Lot	Reason for Change	Date
2.2	672980	803572	Text update	22 Jun 2021



Page 1/2 Version

673026 Lot: 808279

Amoxicillin trihydrate

1. General Information

Formula C16H19N3O5S · Expiry Date 01 Feb 2027

3H2O

Mol. Weight 419.45 g/mol Store at 4°C (in the dark)

CAS-No. 61336-70-7

2. Batch Analysis

Identity confirmed by LC-MS

Overall Purity 98.97 % (g/g) Expanded Uncertainty 0.96 % (g/g)

Assay Purity (HPLC) 98.88 % (g/g) Uncertainty 0.17 % (g/g) Water 12.80 % (g/g) Uncertainty 0.45 % (g/g)

Water (theor.) 12.89 % (g/g)
Excess Water -0.09 % (g/g)

Certified on 08 Feb 2022

by Jan Heumann

The overall purity is calculated by: Purity(%) = Assay purity*(100-water content-impurities)/100

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).





Article 673026 Lot-No. 808279

Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm

Eluent A Acetonitrile

Eluent B 0.1% Phosphoric acid (Water)

 Gradient
 time
 %A
 %B

 0min
 0
 100

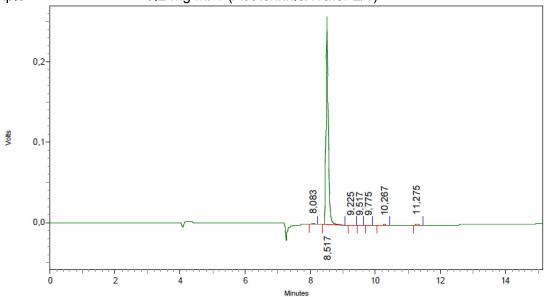
 22.5min
 90
 10

 25min
 90
 10

Flow 1.0 ml min-1 Detector UV-220nm

Injection-Volume 5 μl

Sample 0.2 mg ml-1 (Acetonitrile/Water 2/1)



Detector A - 1 (220nm)

Retention Time	Height	Area	Area Percent
8,083	1522	7713	0,56
8,517	257601	1357853	98,90
9,225	92	852	0,06
9,517	54	269	0,02
9,775	42	293	0,02
10,267	197	1219	0,09
11,275	899	4804	0,35

Totals			
	260407	1373003	100,00

Version	Article	Lot	Reason for Change	Date
1	673026	808279	Initial Version	08 Feb 2022



Page 1/2

673115 Lot: 814303 **Thymol**

1. General Information

Formula C10H14O Expiry Date 01 Dec 2027

Mol. Weight 150.22 g/mol Store at 20°C (in the dark)

Mol. Weight 150.22 g/mol CAS-No. 89-83-8

2. Batch Analysis

Identity confirmed by GC-MS

Overall Purity 99.97 % (g/g) Expanded Uncertainty 0.34 % (g/g)

Assay Purity (HPLC) 99.97 % (g/g) Uncertainty 0.17 % (g/g)

Certified on 21 Nov 2022

by Jacqueline Seidel

The overall purity is calculated by: Purity(%) = Assay purity*(100-water content-impurities)/100

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).



Article 673115 Lot-No. 814303

Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm

Eluent A Acetonitrile

Eluent B 0.1 % Phosphoric acid (Water)

 Gradient
 time
 %A
 %B

 0min
 0
 100

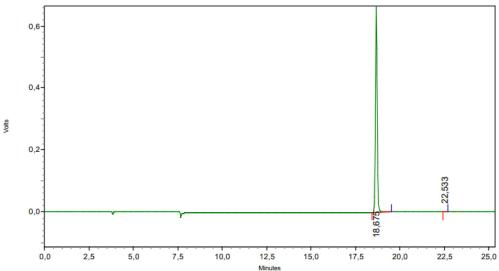
 22.5min
 90
 10

 25min
 90
 10

Flow 1.0 ml min-1 Detector UV-220nm

Injection-Volume 5 μl

Sample 0.3 mg ml-1 (Acetonitrile)



Detector A - 1 (220nm)

Retention Time	Height	Area	Area Percent
18,675	691684	4165586	99,96
22,533	270	1764	0,04

Totals			
	691954	4167350	100,00

Version	Article	Lot	Reason for Change	Date
1	673115	814303	Initial Version	21 Nov 2022



Page 1/2

674759 Lot: 812034

Florfenicol

1. General Information

Formula C12H14Cl2FNO4S Expiry Date 01 Aug 2027

Mol. Weight 358.21 g/mol Store at 4°C (in the dark)

CAS-No. 73231-34-2

2. Batch Analysis

Identity confirmed by LC-MS

Overall Purity 99.36 % (g/g) Expanded Uncertainty 0.34 % (g/g)

Assay Purity (HPLC) 99.36 % (g/g) Uncertainty 0.17 % (g/g)

Certified on 04 Aug 2022

by Corinna Gröst

The overall purity is calculated by: Purity(%) = Assay purity*(100-water content-impurities)/100

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).



Article 674759 Lot-No. 812034

Column L=250mm, ID=4.6mm; Reprosil-PUR C18, 100A, 10µm

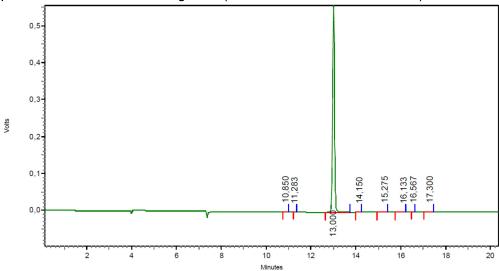
Eluent A Acetonitrile

Eluent B 0.1 % Phosphoric acid (Water)

%В Gradient %A time 0min 0 100 22,5min 90 10 25min 90 10

Flow 1.0 ml min-1 Detector UV-220nm Injection-Volume 20 µl

Sample 0.3 mg ml-1 (30% Acetonitrile / 70% Water)



Detector A	Λ _ 1	(220mm)
Detector A	- I	(ZZUIIIII

Detector II I (220mil)			
Retention Time	Height	Area	Area Percent
10,850	889	5267	0,15
11,283	180	875	0,03
13,000	567593	3406860	99,36
14,150	592	3610	0,11
15,275	597	7421	0,22
16,133	72	799	0,02
16,567	107	456	0,01
17,300	373	3522	0,10
Totals			
	570403	3428810	100,00

Exemplary chromatogram of given method.

Version	Article	Lot	Reason for Change	Date
1	674759	812034	Initial Version	04 Aug 2022



Page 1/2

674878 Lot: 816399
Amprolium hydrochloride

1. General Information

Formula C14H20Cl2N4 Expiry Date 01 Feb 2028

Mol. Weight 315.24 g/mol Store at 20°C (in the dark)

CAS-No. 137-88-2

Batch Analysis

Overall Purity 99.90 % (g/g) Expanded Uncertainty 1.00 % (g/g)

Assay 99.90 % (g/g) Uncertainty 0.50 % (g/g)

Certified on 30 Jan 2023

an, highing

by YingYing Gao

The overall purity is calculated by: Purity(%) = Assay purity*(100-water content-impurities)/100 For non-specified hydrates, the overall purity refers to the stated molecular formula.

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).

The HPC Standards GmbH, accredited by DAkkS as indicated by the accreditation number D-RM-20844-01-00, has shown competence based on ISO 17034:2017 for production of certified reference materials.

Version 1



Version	Article	Lot	Reason for Change	Date
1	674878	816399	Initial Version	30 Jan 2023



Page 1/2

674884 Lot: 812652

Diclazuril

1. General Information

Formula C17H9Cl3N4O2 Expiry Date 01 Oct 2027

Mol. Weight 407.64 g/mol Store at 20°C (in the dark)

CAS-No. 101831-37-2

2. Batch Analysis

Identity confirmed by LC-MS

Overall Purity 99.49 % (g/g) Expanded Uncertainty 0.38 % (g/g)

Assay Purity (HPLC) 99.49 % (g/g) Uncertainty 0.19 % (g/g)

Certified on 16 Sep 2022

by Corinna Gröst

The overall purity is calculated by: Purity(%) = Assay purity*(100-water content-impurities)/100

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).



Article 674884 Lot-No. 812652

Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm

Eluent A Acetonitrile

Eluent B 0.1 % Phosphoric acid (Water)

 Gradient
 time
 %A
 %B

 0min
 0
 100

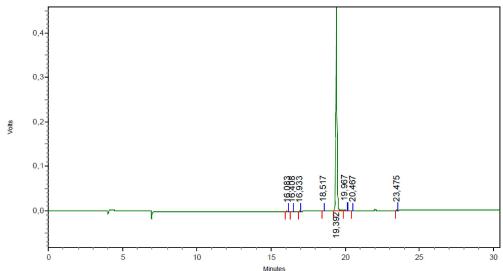
 22.5min
 90
 10

 25min
 90
 10

Flow 1.0 ml min-1 Detector UV-220nm

Injection-Volume 5 μl

Sample 0.1 mg ml-1 (Acetonitrile)

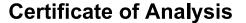


Detector A - 1	(220nm)

Detector A - 1 (220mm)			
Retention Time	Height	Area	Area Percent
16,083	592	3184	0,12
16,408	173	974	0,04
16,933	150	834	0,03
18,517	55	248	0,01
19,392	457217	2751620	99,55
19,967	1027	5984	0,22
20,467	147	722	0,03
23,475	125	607	0,02
Totals			

459486

Version	Article	Lot	Reason for Change	Date
1	674884	812652	Initial Version	16 Sep 2022



Page 1/2



674886 Lot: 803829

Fenbendazole

1. General Information

Formula C15H13N3O2S Expiry Date 01 Jul 2026

 Mol. Weight
 299.35 g/mol
 Store at
 20°C (in the dark)

 CAS-No.
 43210-67-9

2. Batch Analysis

Identity confirmed by LC-MS

Overall Purity 99.94 % (g/g) Expanded Uncertainty 0.34 % (g/g)

Assay Purity (HPLC) 99.94 % (g/g) Uncertainty 0.17 % (g/g)

Certified on 05 Jul 2021

by Jan Heumann

The overall purity is calculated by: Purity(%) = Assay purity*(100-water content-impurities)/100

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty. The material in the vial can be used multiple times, but it is strongly recommended, that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed, if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).

The HPC Standards GmbH, accredited by DAkkS as indicated by the accreditation number D-RM-20844-01-00, has shown competence based on ISO 17034:2017 for production of reference materials in form of organic pure substances and their solutions (for further specification see the annex of the accreditation certificate).



Article 674886 Lot-No. 803829

Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm

Eluent A Acetonitrile

Eluent B 0.1 % Phosphoric acid (Water)

 Gradient
 time
 %A
 %B

 0min
 0
 100

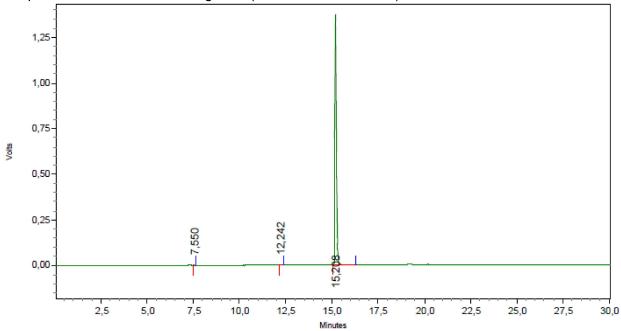
 22.5min
 90
 10

 25min
 90
 10

Flow 1.0 ml min-1 Detector UV-220nm

Injection-Volume 5 μl

Sample 0.2 mg ml-1 (Acetonitrile 2/1 Water)



Detector A - 1 (220nm)

Retention Time	Height	Area	Area Percent
7,550	538	2553	0,03
12,242	382	2111	0,03
15,208	1370186	7926654	99,94

Totals			
	1371106	7931318	100,00

Version	Article	Lot	Reason for Change	Date
2.2	674886	803829	Text update	05 Jul 2021



Page 1/2

674893 Lot: 810376

Enrofloxacin

1. General Information

Formula C19H22FN3O3 Expiry Date 01 May 2025

Mol. Weight 359.40 g/mol Store at 20°C (in the dark)

CAS-No. 93106-60-6

2. Batch Analysis

Identity confirmed

Overall Purity 99.60 % (g/g) Expanded Uncertainty 0.50 % (g/g)

Assay Purity (HPLC) 99.60 % (g/g) Uncertainty 0.25 % (g/g)

Certified on 13 May 2020

by Heike Uhlig

The overall purity is calculated by: $Purity(\%) = Assay purity^*(100-water content-impurities)/100$

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).



Article 674893 Lot-No. 810376

Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm

Eluent A Acetonitrile

Eluent B 0.1 % Phosphoric acid (Water)

 Gradient
 time
 %A
 %B

 0min
 0
 100

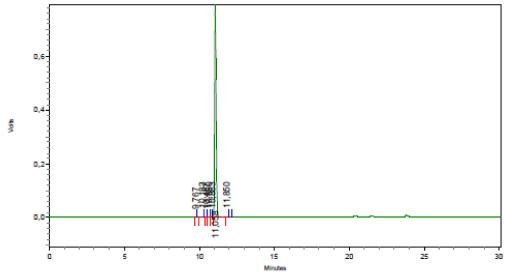
 22.5min
 90
 10

 30min
 90
 10

Flow 1.0 ml min-1 Detector UV-220nm

Injection-Volume 5 μI

Sample 0.5 mg ml-1 (Acetonitrile)



Height	Area	Area Percent
98	444	0,01
1550	7530	0,15
36	139	0,00
333	1390	0,03
27	324	0,01
815396	4993153	99,59
2127	10662	0,21
	1550 36 333 27 815396	98 444 1550 7530 36 139 333 1390 27 324 815396 4993153

819567

Version	Article	Lot	Reason for Change	Date
1	674893	810376	Initial Version	13 May 2020



Page 1/2

675916 Lot: 813568

Cloxacillin sodium salt hydrate

1. General Information

Formula C19H17CIN3NaO5S Expiry Date 01 Nov 2027

Mol. Weight 457.86 g/mol Store at 4°C (in the dark)

CAS-No. 7081-44-9

2. Batch Analysis

Identity confirmed by LC-MS

Overall Purity 96.09 % (g/g) Expanded Uncertainty 0.40 % (g/g)

Assay Purity (HPLC) 96.86 % (g/g) Uncertainty 0.20 % (g/g)

Water 0.79 % (g/g)

Certified on 17 Oct 2022

by Jacqueline Seidel

The overall purity is calculated by: Purity(%) = Assay purity*(100-water content-impurities)/100

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).



Article 675916 Lot-No. 813568

Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm

Eluent A Acetonitrile

Eluent B 0.1 % Phosphoric acid (Water)

 Gradient
 time
 %A
 %B

 0min
 0
 100

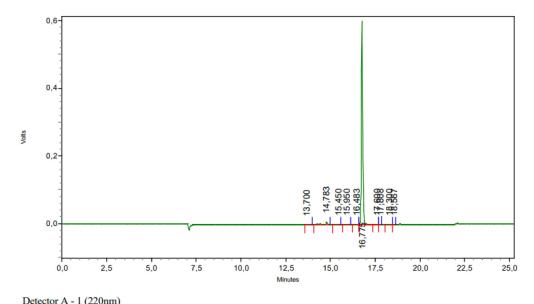
 22.5min
 90
 10

 25min
 90
 10

Flow 1.0 ml min-1 Detector UV-220nm

Injection-Volume 5 µl

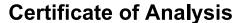
Sample 0.3 mg ml-1 (Water)



Detector A - 1 (220nm)			
Retention Time	Height	Area	Area Percent
13,700	362	2939	0,08
14,783	8114	85335	2,42
15,450	93	1019	0,03
15,950	310	4188	0,12
16,483	230	1778	0,05
16,775	600000	3420599	96,93
17,600	311	4417	0,13
17,808	785	3585	0,10
18,300	260	3169	0,09
18,567	341	1790	0,05

Totals			
Totals			
	610806	3528819	100.00
	010000	3320017	100,00

	Version	Article	Lot	Reason for Change	Date
Ī	1	675916	813568	Initial Version	17 Oct 2022





683379 Lot: 804435

Tylosin tartrate

1. General Information

Formula C50H83NO23 Expiry Date 01 Aug 2025

Mol. Weight 1066.19 g/mol Store at 4°C (in the dark)

CAS-No. 74610-55-2

2. Batch Analysis

Identity confirmed by LC-MS

Overall Purity 92.63 % (g/g) Expanded Uncertainty 1.00 % (g/g)

Assay Purity (HPLC) 92.63 % (g/g) Uncertainty 0.50 % (g/g)

Certified on 04 Aug 2021

by Jan Heumann

The overall purity is calculated by: Purity(%) = Assay purity*(100-water content-impurities)/100

The reported uncertainty U is an expanded uncertainty according to EURACHEM / CITAC guide CG4 – Quantifying Uncertainty in Analytical Measurement. The Uncertainty is based on the combined uncertainties, including uncertainties of characterization and stability testing. The expiry date is based on the current knowledge and holds only for proper storage conditions in the originally closed flask. If the substance is proven to be unstable under the given storage conditions, you will be contacted immediately. The warranty of this product is limited to the purchasing price of this product and to the first point of use.

Our standards are for laboratory use only and can be used as reference material for calibration of chromatographic systems or related analytical techniques. For handling instructions see the MSDS. A minimum sample of 2 mg is recommended. Deploying less material will increase the uncertainty by a factor 2 for half of sample and 4 for a quarter of sample. The material in the vial can be used multiple times, but it is strongly recommended that all external negative influences to the material are considered and ruled out (e.g. high temperatures, UV-radiation, moisture, oxygen). It is strongly recommended to open the vial at room temperature only and handle the material under inert gas if necessary. The integrity of the purity cannot be guaranteed if the substance is handled under unfavorable conditions.

The balances used are calibrated with weights traceable to the national standards (DKD).



Article 683379 Lot-No. 804435

Column L=250mm, ID=4.6mm; Luna-Omega C18, 100A, 5µm

Eluent A Acetonitrile

Eluent B 0.1 % Phosphoric acid (Water)

 Gradient
 time
 %A
 %B

 0min
 0
 100

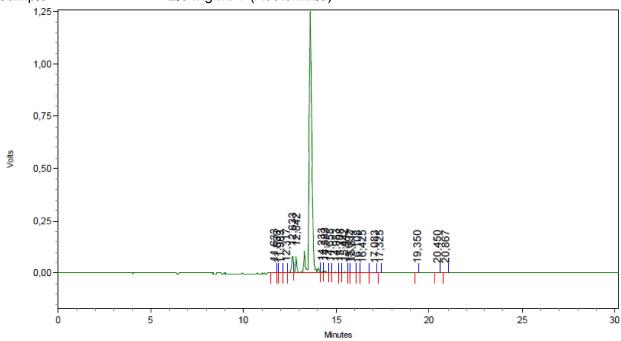
 22.5min
 90
 10

 25min
 90
 10

Flow 1.0 ml min-1 Detector UV-220nm

Injection-Volume 5 μl

Sample 2.0 mg ml-1 (Acetonitrile)





Detector A - 1	(280nm)
----------------	---------

Retention Time	Height	Area	Area Percent	10
11,633	3128	21453	0,16	
11,833	200	745	0,01	
11,983	603	5681	0,04	
12,317	2089	25761	0,19	
12,633	81404	599731	4,50	
12,842	77852	12339308	92,57	<- Sum of Tylosin
14,233	8018	63505	0,48	A, B, C and D
14,383	10541	89103	0,67	
14,658	4132	39795	0,30	
14,983	4796	56785	0,43	
15,208	1512	12057	0,09	
15,442	5937	47622	0,36	
15,692	788	4976	0,04	
15,817	1426	9784	0,07	
16,108	130	1213	0,01	
16,425	271	3610	0,03	
17,083	287	3411	0,03	
17,325	180	1025	0,01	
19,350	191	1059	0,01	
20,450	238	1561	0,01	
20,867	254	1824	0,01	
Totals			<u>po</u>	1
	203977	13330009	100,00]

Version	Article	Lot	Reason for Change	Date
3.0	683379	804435	Format update	04 Aug 2021