



EUROPEAN MEDICINES AGENCY  
SCIENCE MEDICINES HEALTH

# Introduction to the ASU (Antimicrobial Sales and Use) Platform and collaboration with WOH

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Europe and Central Asia Workshop on ANIMUSE  
7 – 9 November 2023

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An agency of the European Union





# Presentation overview



*Introduce the Antimicrobial Sales and Use (ASU) Platform and present the functionality that will enable users to download data in a compatible format for ANIMUSE.*

**1**

**Context of the ASU Platform**

**2**

**Design and functionalities of the ASU Platform**

**3**

**Using the ASU Platform to extract data for ANIMUSE**



# 1. Context of the ASU Platform

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# Legal basis of the ASU Platform

## Article 57 Regulation (EU) 2019/6

Article 57

Collection of data on antimicrobial medicinal products used in animals

1. Member States shall collect relevant and comparable data on the volume of sales and on the use of antimicrobial medicinal products used in animals, to enable in particular the direct or indirect evaluation of the use of such products in food-producing animals at farm level, in accordance with this Article and within the time limits set out in paragraph 5.
2. Member States shall send collated data on the volume of sales and the use per animal species and per types of antimicrobial medicinal products used in animals to the Agency in accordance with paragraph 5 and within the time limits referred to therein. The Agency shall cooperate with Member States and with other Union agencies to analyse those data and shall publish an annual report. The Agency shall take into account those data when adopting any relevant guidelines and recommendations.
3. The Commission shall adopt delegated acts in accordance with Article 147, in order to supplement this Article, establishing the requirements as regards:
  - a) the types of antimicrobial medicinal products used in animals for which data shall be collected;
  - b) the quality assurance that Member States and the Agency shall put in place to ensure quality and comparability of data; and
  - c) the rules on the methods of gathering data on the use of the antimicrobial medicinal products used in animals and on the method of transfer of those data to the Agency.
4. The Commission shall, by means of implementing acts, set up the format for the data to be collected in accordance with this Article. Those implementing acts shall be adopted in accordance with the examination procedure referred to in Article 145(2).

Collection and reporting of data on:

- **volumes of sales** per *veterinary antimicrobial medicinal products*
- **use per animal species** per *antimicrobial medicinal products* (both **veterinary** and **human**)

## Delegated Regulation (EU) 2021/578

- **Mandatory** plus **voluntary** data collection based on ATC/ATCvet code
- **Data quality**
- Establishment of **national data collection systems** and **IT tools** for automated or semi-automated reporting and analysis

## Implementing Regulation (EU) 2022/209

- **Data collected at package level**
- Data **format**
- Pre-filling of data entry fields by the Agency with information available from the Union Product Database (UPD)



# Type of data being collected

## Volume of Sales

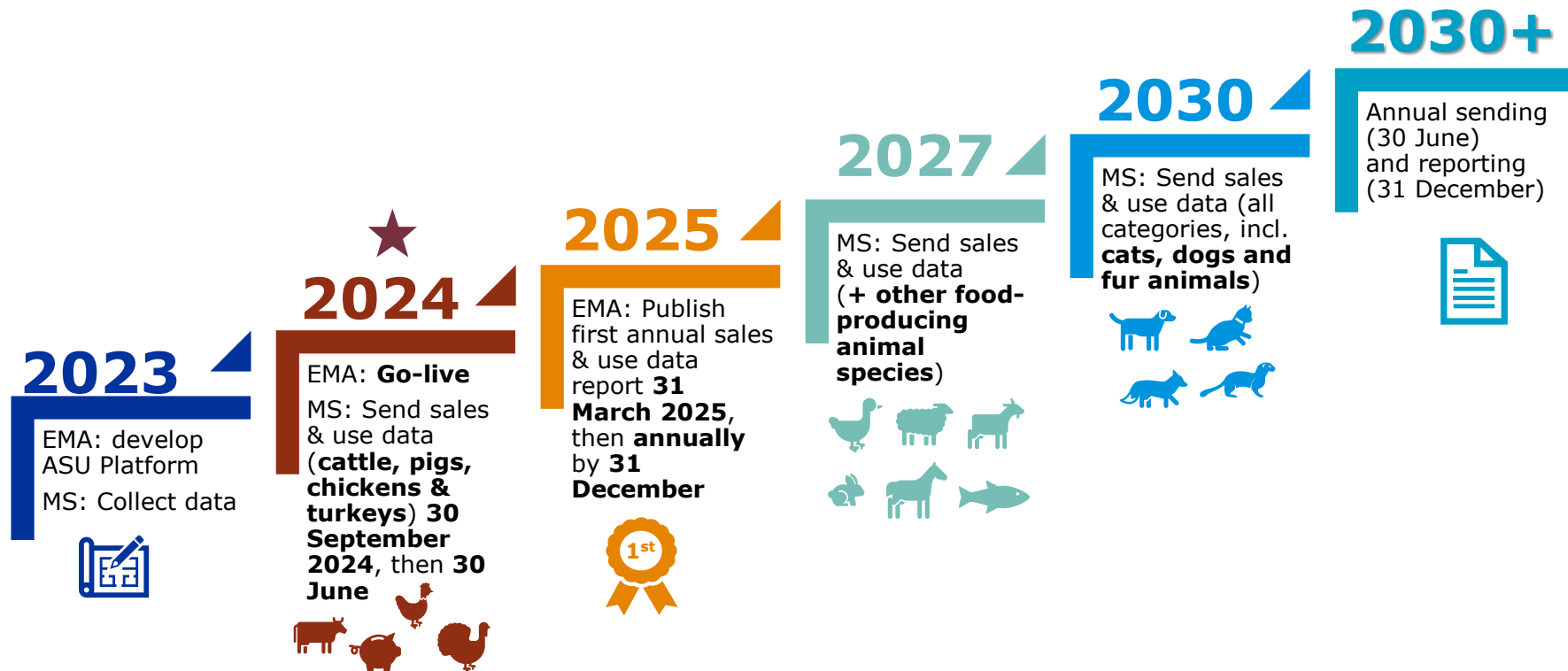
- Veterinary Antimicrobial Medicinal Products
- Data providers: marketing authorisation holders, wholesalers, retailers, feed mills, pharmacies and/or veterinarians

## Use

- Veterinary and Human Antimicrobial Medicinal Products
- Per animal species and categories
- Data providers: veterinarians, retailers, pharmacies, feed mills and/or end users (including farmers or breeders)
- Data sources: health records, treatment logbooks, delivery notes, farm invoices, prescriptions, pharmacy records, veterinary practice records



# Stepwise scaling up of data collection, sending, and reporting

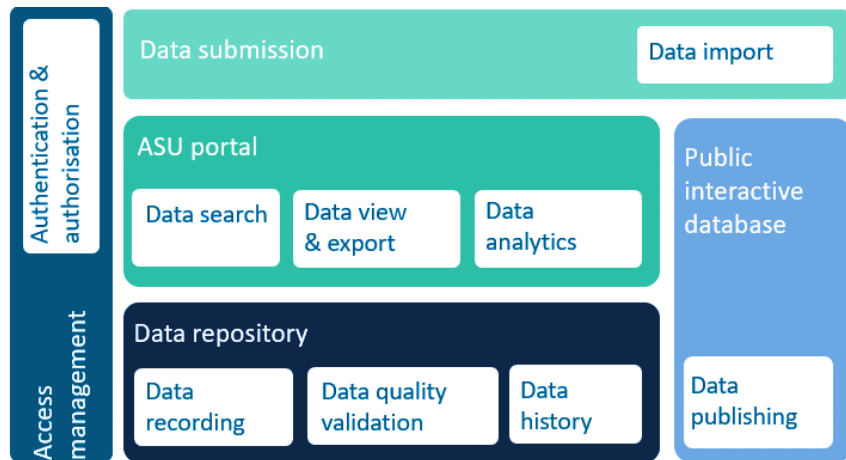




## 2. Design and functionalities of the ASU Platform

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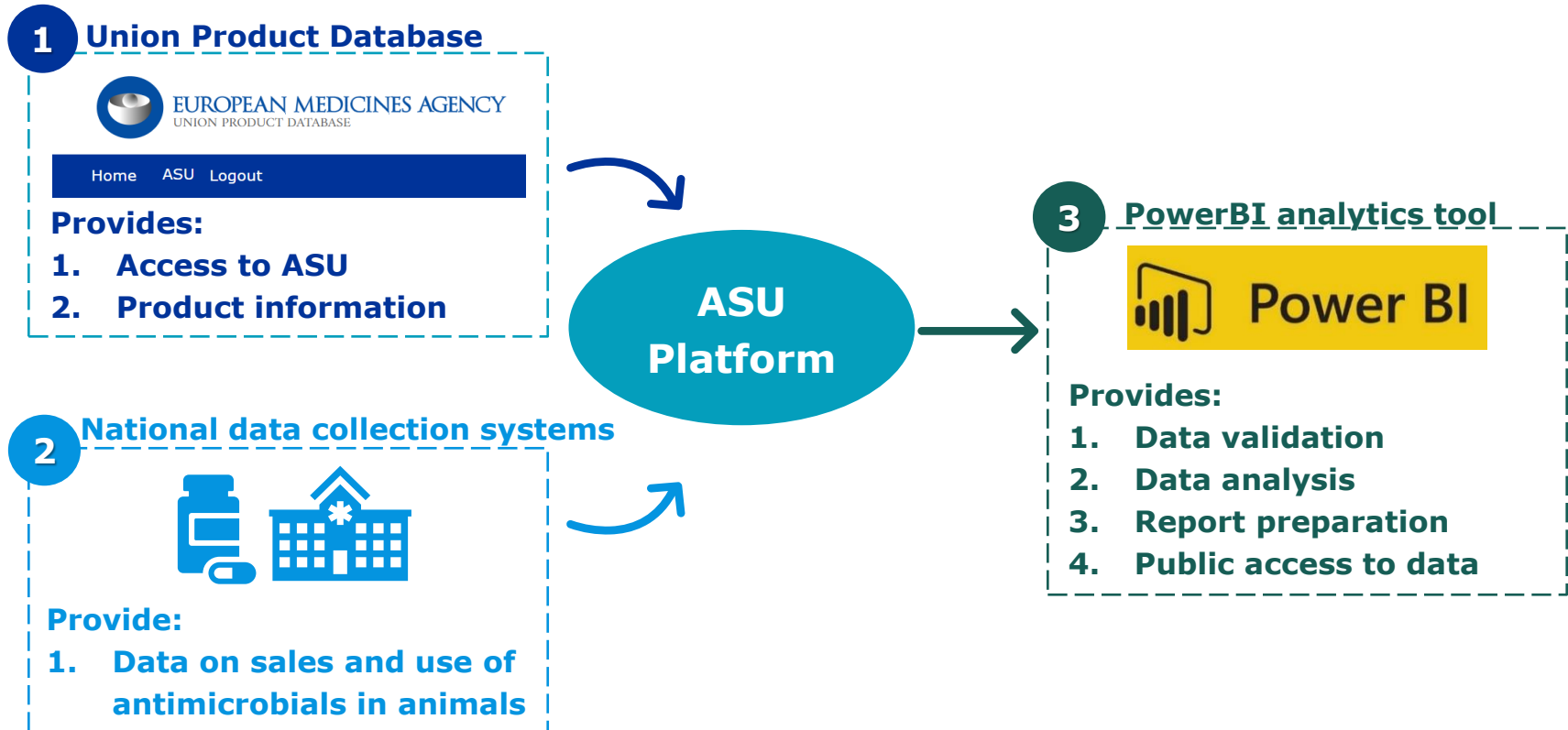
# ASU Platform: IT system overview



## ASU concept

- In line with legal requirements
- Provide an environment for MSs to submit data in a standardised format
- Leveraging existing capabilities for sales data collection
- Functionalities prioritised in cooperation with MSs to enable legislative compliance
- Support harmonisation and data quality
- Improve User Interface and Experience
- Provide a public interactive database and support data analytics







## ASU Platform users

### Data managers (NCA users)

During reporting cycle (Q1-Q2):

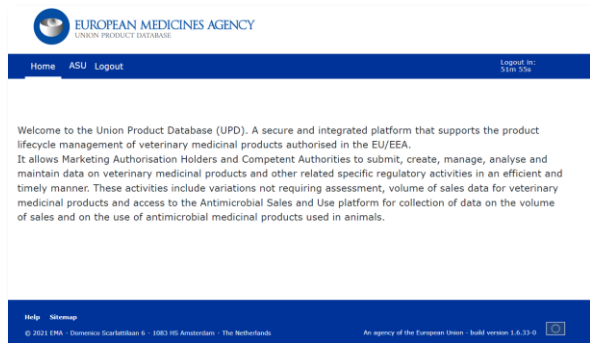
- Upload sales, use and animal population data to ASU Platform.
- Validate uploaded data in the ASU Power BI Application.
- Submit the data on the ASU Platform.

### EMA (Admin users)

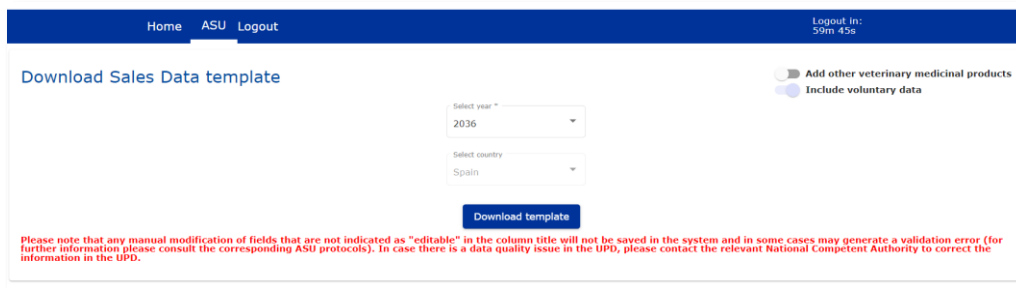
- Q1-Q2: assist with data submission and validation.
- Q3-Q4: analyse submitted data and prepare annual publication

# Workflow for ASU data managers

## 1. Access the ASU Platform via UPD



## 2. Download sales and use data templates prefilled with products and product information at package level from the UPD



## 3. Complete downloaded templates with the number of packs sold/used for each product

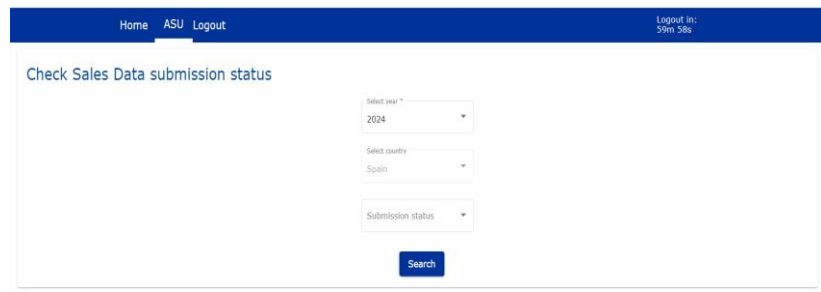
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	COUNTRY	YEAR	PERMANENT PACKAGE REF.	NUM ARTICLE	NAME	FORM	PACKSIZE	PACKSIZE	ATCVET	SCOPE	COMPAN			NO_PACKS(editable)	SUBST_ID	SUBSTAN
1	DE	2024	'6000002113b29c646-d695-47de	N	Aciphen K.TABL		72,000	gram(s)		QJ01CA04	mandator	N		26	10000009	AMOXICILLIN
2	DE	2024	'600000211c5a489d-dfcb-40db	N	Aciphen K.TABL		72,000	gram(s)		QJ01CA04	mandator	N		176	10000009	AMOXICILLIN
3	DE	2024	'600000211e95e0db-b1ca-42ca	N	Aciphen K.TABL		36,000	gram(s)		QJ01CA04	mandator	N		442	10000009	AMOXICILLIN
4	DE	2024	'600000211528ee02-c5fd-4928	N	Aciphen K.TABL		36,000	gram(s)		QJ01CA04	mandator	N		355	10000009	AMOXICILLIN
5	DE	2024	'60000021194dba154-b689-4e8a	N	Aciphen K.TABL		5	gram(s)		QJ01CA04	mandator	N		172	10000009	AMOXICILLIN
6	DE	2024	'600000211ddf7b8b8-c454-480a	N	Aciphen K.TABL		2,5	gram(s)		QJ01CA04	mandator	N		300	10000009	AMOXICILLIN
7	DE	2024	'60000021158307b6b-d2b7-449a	N	Aciphen K.TABL		1	gram(s)		QJ01CA04	mandator	N		140	10000009	AMOXICILLIN
8	DE	2024	'60000021146c58c3d-ed97-4b5b	N	Aciphen K.TABL		500	gram(s)		QJ01CA04	mandator	N		120	10000009	AMOXICILLIN
9	DE	2024	'60000021146c58c3d-ed97-4b5b	N	Aciphen K.TABL		500	gram(s)		QJ01CA04	mandator	N		120	10000009	AMOXICILLIN

## 4. Upload the sales and use templates to the ASU Platform

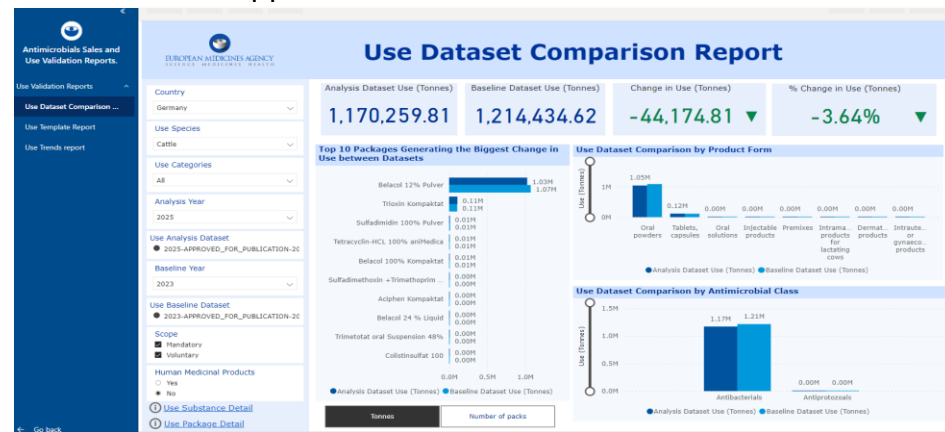


Please note that any manual modification of fields that are not indicated as "editable" in the column title will not be saved in the system and in some cases may generate a validation error (for further information please consult the corresponding ASU protocols). In case there is a data quality issue in the UPSI, please contact the relevant National Competent Authority to correct the information in the UPSI.

## 6. Submit the data on the ASU Platform



## 5. Validate the uploaded data in the ASU Power BI Application

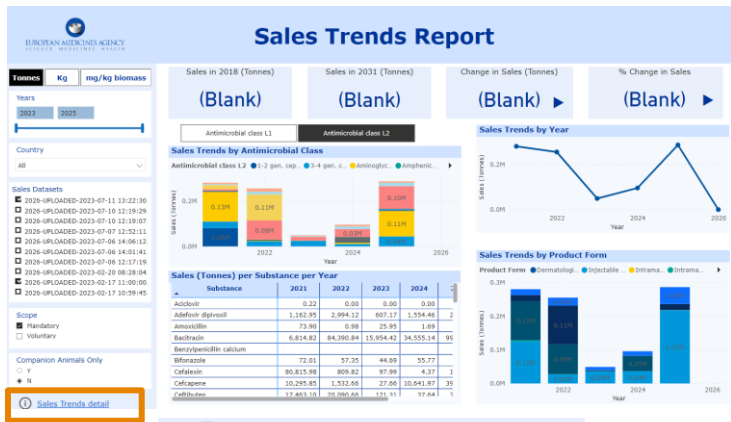




### 3. Using the ASU Platform to extract data for ANIMUSE

# ASU Power BI Data Validation Reports

- Help Member States validate the data uploaded to the ASU Platform and ensure that it meets the quality standards indicated in the legislation.



[Sales Trends detail](#)



[Use Trends Detail](#)

Antimicrobials Sales and Use Validation Reports.

Sales Validation Reports

Sales Dataset Comparison...

Sales Template Report

**Sales Trends Report**

Use Validation Reports

Use Dataset Comparison ...

Use Template Report

**Use Trends report**

Animal Population Reports

Animal Population Templa...

Animal Population Bioma...

Columns for ANIMUSE reporting

Sort or filter to just show antibiotics

Year	Country	Active substance	Sales in Kg	Route of administration	Companion Animals only	Antimicrobial class L1	Antimicrobial Class L2	Antimicrobial class L3	ATCvet Code
2023	Austria	Temafloxacin	0.06	Oral	N	Antibacterials	Fluoroquinolones	Fluoroquinolones	QJ01XQ01
2023	Austria	Methenamine silver nitrate	32.13	Oral	N	Antibacterials	Other antibacterials	Other antibacterials	QJ01FA92
2023	Belgium	Methenamine silver nitrate	41.06	Oral	N	Antibacterials	Other antibacterials	Other antibacterials	QJ01FA92
2023	Bulgaria	Methenamine silver nitrate	41.14	Oral	N	Antibacterials	Other antibacterials	Other antibacterials	QJ01FA92
2023	Croatia	Methenamine silver nitrate	0.68	Oral	N	Antibacterials	Other antibacterials	Other antibacterials	QJ01FA92
2023	Cyprus	Ceftibuten	0.52	Oral	N	Antibacterials	Other antibacterials	Other antibacterials	QJ01FA92
2023	Cyprus	Kanamycin	126.00	Oral	N	Antibacterials	Other antibacterials	Other antibacterials	QJ01FA92
2023	Cyprus	Flurithromycin	37,500.00	Injection	N	Antibacterials	Other antibacterials	Other antibacterials	QJ01FA92
2023	Cyprus	Flurithromycin	27.40	Oral	N	Antibacterials	Other antibacterials	Other antibacterials	QJ01FA92
2023	Cyprus	Bacitracin	13,655.19	Injection	N	Antibacterials	Other antibacterials	Other antibacterials	QJ01FA92
2023	Cyprus	Bacitracin	0.02	Oral	N	Antibacterials	Other antibacterials	Other antibacterials	QJ01FA92
2023	Cyprus	Methenamine silver nitrate	4.51	Oral	N	Antibacterials	Other antibacterials	Other antibacterials	QJ01FA92
2023	Cyprus	Penamecillin	9,301.60	Injection	N	Antibacterials	Penicillins	Beta lactamase sensitive	QJ01FA92

ASU product forms mapped to WOH 'Route of administration'

N = All food-producing animals (terrestrial + aquatic)  
 Y = Non-food-producing animals

Navigation and filters on the left side of the dashboard:

- Chat in Teams
- Get insights
- Subscribe to report
- Years: 2023, 2025
- Country: All
- Scope:
  - Mandatory
  - Voluntary
- Companion Animals Only:
  - Y
  - N
- [Sales Trends Report](#)
- [Go back](#)

Filters on the right side of the dashboard:

- Filters
- Search
- Filters on this page:
  - Product with Data Quality is N
- Filters on all pages:
  - Antimicrobial class L1 is Antibacterials
  - Antimicrobial class L2 is (All)
  - Antimicrobial class L3 is (All)
  - Product Form is (All)
  - Substance is (All)
  - Year is less than or equal to 2025 and is greater than or equal to 2023



Antimicrobials Sales and Use Validation Reports.

- Sales Validation Reports
- Sales Dataset Comparison...
- Sales Template Report
- Sales Trends Report
- Use Validation Reports
- Use Dataset Comparison ...
- Use Template Report
- Use Trends report
- Animal Population Reports
- Animal Population Templa...
- Animal Population Bioma...



# Use Trends Detail

Tonnes		mg/kg biomass		Year	Country	Active substance	Use (Kg)	Route of Administration	Use Species	Use Category	AM Class L1	AM Class L2	AM Class L3	ATC/ATCvet code	Product						
Years <input type="checkbox"/> 2023 <input type="checkbox"/> 2025 		Country Austria		Use Species Cattle		Use Categories All		Use Datasets <input checked="" type="checkbox"/> 2025-APPROVED_FOR_PUBLICATION-20 <input checked="" type="checkbox"/> 2025-APPROVED_FOR_PUBLICATION-20 <input checked="" type="checkbox"/> 2024-APPROVED_FOR_PUBLICATION-20 <input checked="" type="checkbox"/> 2023-APPROVED_FOR_PUBLICATION-20								Scope <input checked="" type="checkbox"/> Mandatory <input type="checkbox"/> Voluntary		Medicinal Products <input checked="" type="checkbox"/> VMP <input type="checkbox"/> HMP		<a href="#">Use Trends Report</a>	
2023	Austria	Benzylpenicillin calcium	39.09	Injection	Cattle	Beef cattle	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01FA95	Injectable products										
2024	Austria	Benzylpenicillin calcium	45.15	Injection	Cattle	Beef cattle	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01FA95	Injectable products										
2025	Austria	Benzylpenicillin calcium	44.47	Injection	Cattle	Beef cattle	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01FA95	Injectable products										
2023	Austria	Benzylpenicillin calcium	87.11	Injection	Cattle	Beef cattle for slaughter under 1 year of age	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01FA95	Injectable products										
2024	Austria	Benzylpenicillin calcium	42.17	Injection	Cattle	Beef cattle for slaughter under 1 year of age	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01FA95	Injectable products										
2025	Austria	Benzylpenicillin calcium	75.44	Injection	Cattle	Beef cattle for slaughter under 1 year of age	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01FA95	Injectable products										
2023	Austria	Benzylpenicillin calcium	45.61	Injection	Cattle	Dairy cattle	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01FA95	Injectable products										
2024	Austria	Benzylpenicillin calcium	59.39	Injection	Cattle	Dairy cattle	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01FA95	Injectable products										
2025	Austria	Benzylpenicillin calcium	68.27	Injection	Cattle	Dairy cattle	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01FA95	Injectable products										
2023	Austria	Benzylpenicillin calcium	71.96	Injection	Cattle	Other cattle	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01FA95	Injectable products										
2024	Austria	Benzylpenicillin calcium	81.31	Injection	Cattle	Other cattle	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01FA95	Injectable products										
2025	Austria	Benzylpenicillin	47.39	Injection	Cattle	Other cattle	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01FA95	Injectable products										



Microbials Sales and Validation Reports

Antimicrobial Sales and Validation Reports

Report Comparison...

Template Report

Trends Report

Validation Reports

Population Reports

back

File Share Export Chat in Teams Get insights Subscribe to report
Refresh Filter Print Download Home

# Sales Trends Detail

TONNES mg/kg biomass

Years

2023 2025

Country

All

Sales Datasets

- 2025-APPROVED\_FOR\_PUBLICATION-20
- 2024-APPROVED\_FOR\_PUBLICATION-20
- 2023-APPROVED\_FOR\_PUBLICATION-20
- 2022-APPROVED\_FOR\_PUBLICATION-20
- 2021-APPROVED\_FOR\_PUBLICATION-20

Scope

Mandatory

Voluntary

Companion Animals Only


Y


N


[Sales Trends Report](#)

**Which data do you want to export?**

Export your data in the format that suits your needs. If you have a lot of data, the number of rows you export might be limited depending on the file type you select. [Learn more about exporting data](#)

  
**Data with current layout**  
Export this data in the same layout you see now, but without any icons, colors, or other formatting you added.

  
**Summarized data**  
Export the summarized data used to create your visual (for example, sums, averages, and medians).

  
**Underlying data**  
The report author turned off this option

File format:

.xlsx (Excel 150,000-row max)

Export
Cancel

	Antimicrobial class L1	Antimicrobial Class L2	Antimicrobial class L3	ATCv Code	
	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01F	
	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01F	
	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01F	
	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01F	
	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01F	
	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01F	
	Antibacterials	Penicillins	Beta-lactamase sensitive penicillins	QJ01F	
2021	Germany	Penamecillin	3,323.30	Other	N

114%



M11

Internal \ All EMA Staff and Contractors Private Public Internal Confidential Restricted

Year	Country	Active substance	Sales in Kg	Route of administration	Companion Animals only	Antimicrobial class L1	Antimicrobial Class L2	Antimicrobial class L3	ATCvet Code	Product Form			
2023	Austria	Amoxicillin	78,58	Injection	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA04	Injectable products			
2023	Austria	Amoxicillin	5,49	Injection	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA91	Injectable products			
2023	Austria	Amoxicillin	25.870,28	Oral	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA04	Tablets, capsules			
2023	Austria	Amoxicillin	0,28	Oral	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA91	Oral powders			
2024	Austria	Amoxicillin	116,88	Injection	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA04	Injectable products			
2024	Austria	Amoxicillin	17,52	Injection	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA91	Injectable products			
2024	Austria	Amoxicillin	15,02	Oral	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA04	Oral powders			
2024	Austria	Amoxicillin	1.411,86	Oral	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA04	Oral solutions			
2024	Austria	Amoxicillin	32,54	Oral	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA04	Tablets, capsules			
2024	Austria	Amoxicillin	97,28	Other	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA04	Intramammary products for lactating cows			
2025	Austria	Amoxicillin	62.047,42	Injection	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA04	Injectable products			
2025	Austria	Amoxicillin	34,20	Injection	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA91	Injectable products			
2025	Austria	Amoxicillin	5.141,59	Oral	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA04	Oral powders			
2025	Austria	Amoxicillin	0,03	Oral	N	antibacterials	Penicillins	Penicillins with extended spectrum	QJ01RA04	Tablets, capsules			
2023	Austria	Bacitracin	13.655,19	Injection	N	antibacterials	Other antibacterials	Other antibacterials	QJ01RA01	Injectable products			
2023	Austria	Bacitracin	0,02	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01RA01	Tablets, capsules			
2024	Austria	Bacitracin	6,48	Injection	N	antibacterials	Other antibacterials	Other antibacterials	QJ01RA01	Injectable products			
2025	Austria	Bacitracin	0,87	Injection	N	antibacterials	Other antibacterials	Other antibacterials	QJ01RA01	Injectable products			
2025	Austria	Bacitracin	18,91	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01RA01	Oral solutions			
2023	Austria	Bacitracin	1.505,82	Injection	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Injectable products			
2023	Austria	Bacitracin	49,66	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Oral powders			
2023	Austria	Bacitracin	0,33	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Tablets, capsules			
2024	Austria	Bacitracin	741,07	Injection	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Injectable products			
2024	Austria	Bacitracin	171,63	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Oral powders			
2024	Austria	Bacitracin	0,37	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Tablets, capsules			
2025	Austria	Bacitracin	1.318,65	Injection	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Injectable products			
2025	Austria	Bacitracin	206,91	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Oral powders			
2025	Austria	Bacitracin	0,36	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Tablets, capsules			
2023	Austria	Bacitracin	0,28	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Tablets, capsules			
2023	Austria	Bacitracin	2,67	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CR02	Tablets, capsules			
2023	Austria	Bacitracin	0,09	Other	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Intrauterine or gynaecological products			
2024	Austria	Bacitracin	0,39	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Tablets, capsules			
2024	Austria	Bacitracin	2,62	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CR02	Tablets, capsules			
2024	Austria	Bacitracin	0,06	Other	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Intrauterine or gynaecological products			
2025	Austria	Bacitracin	0,06	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CA04	Tablets, capsules			
2025	Austria	Bacitracin	0,04	Oral	N	antibacterials	Other antibacterials	Other antibacterials	QJ01CR02	Tablets, capsules			

Export



# Any questions?

## Further information

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## Useful links

- [Regulation \(EU\) 2019/6](#)
- [Commission Delegated Regulation \(EU\) 2021/578 of 29 January 2021 supplementing Regulation \(EU\) 2019/6 of the European Parliament and of the Council with regard to requirements for the collection of data on the volume of sales and on the use of antimicrobial medicinal products in animals](#)
- [Commission Implementing Regulation \(EU\) 2022/209 of 16 February 2022 establishing the format of the data to be collected and reported in order to determine the volume of sales and the use of antimicrobial medicinal products in animals in accordance with Regulation \(EU\) 2019/6 of the European Parliament and of the Council](#)
- [Antimicrobial use data reporting per animal categories \(numerator\) - Manual for reporting Veterinary Medicinal Products Regulation | European Medicines Agency \(europa.eu\)](#)
- [https://www.ema.europa.eu/documents/scientific-guideline/guideline-reporting-antimicrobial-sales-use-animals-eu-level-denominators-indicators\\_en.pdf](https://www.ema.europa.eu/documents/scientific-guideline/guideline-reporting-antimicrobial-sales-use-animals-eu-level-denominators-indicators_en.pdf)
- [Union Product Database | European Medicines Agency \(europa.eu\)](#)