

Reference standards for the pharmaceutical industry.

QUALITY | ISO 9001 ISO | IEC 17025 ISO 17034 | GMP

Igcstandards.com/mikromol



Welcome to Mikromol, a global leader in pharmaceutical reference standards.

At Mikromol, we go beyond the standard, with unparalleled depth of knowledge, decades of manufacturing experience and unrivalled scientific excellence in the world of pharmaceutical reference standards.

We offer truly global technical expertise, making a positive, measurable difference to your work, wherever you are. Today, our quality enables your accuracy, but we won't stop at the benchmark, constantly pushing to help you create ever better, safer medicines. Each and every time. So when we say we go beyond the standard, we mean it.

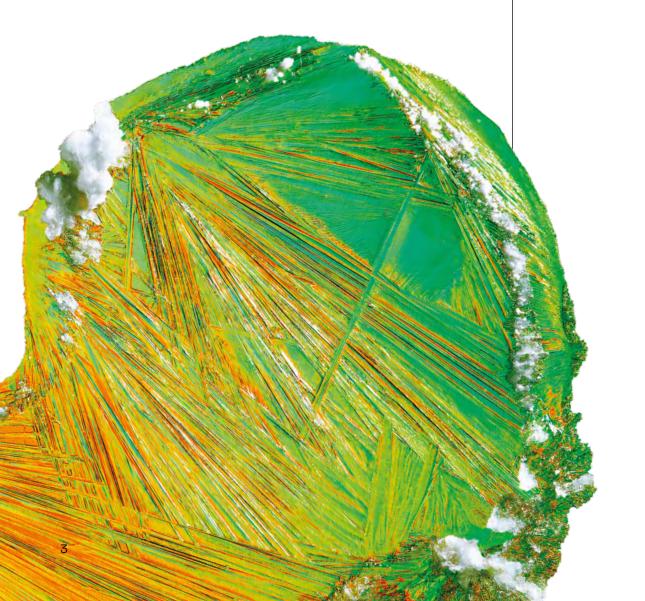


25 years of excellence providing you with high quality pharmaceutical reference standards and best-in-class expert support:

- Over 5000 impurity, API and excipient reference standards, including products which are unique in the market
- Suitable for qualitative and/or quantitative uses
- Accompanied by a comprehensive Certificate of Analysis, for greater analytical certainty
- Produced in our laboratories in Germany, following a highly detailed process, proven over time
- Expert technical support

5,00 impurity, API and excipient reference

standards



The value chain: what it means for you.

In choosing Mikromol, you choose a standard certified to the quality you need and manufactured in an accredited facility; you choose transparent documentation; you choose a history of expertise and superlative depth of experience, all to support your testing methods.



Sourcing

Our expert team ensures the materials are of the highest quality, testing every batch before use



Characterisation

We make use of several validated and independent analytical methods for ID and purity with the most cutting-edge equipment, and perform regular quality tests to make sure we provide you with the accuracy you need



Quality control

Highly experienced chemists (including PhDs) perform extensive analysis, using a range of techniques, during identification and purity assessment in a certified lab environment, complying with the certified processes



Certification

Our Certificte of Analysis provides you with valuable and comprehensive information about methods and testing procedures to save you time and money



Packaging

To guarantee the quality of our products is maintained over time, we pack all products following GMP processes under controlled atmosphere conditions, using pharma-graded vials and ampoules



Storage and distribution

Our products are stored and distributed thorough a state-of-the-art distribution hub, which allows us to fulfil strict storage specifications and temperature control (from -80°C to 21°C in different zones) and to comprehensively manage our inventory (including controlled substances). That way the Mikromol products can be supplied to you everywhere you are, every time you need them





Expert technical support

If you need further assistance, our professional team will be happy to guide you at Mikromol@lgcgroup.com



Oxidation of Ufiprazole with Hydrogen Peroxide during the synthesis of Omeprazole. (Impurity 5-Methoxy-2-[[(4-methoxy-3,5dimethylpyridin-2-yl)methyl]sulphonyl]-1H-benzimidazole (Omeprazole Sulphone), MM0095.05)



Our quality enables your accuracy.

Each Mikromol product comes with an comprehensive Certificate of Analysis to help give you greater analytical certainty, supporting accurate results. Mikromol Certificates of Analysis provide a full description of the material to which they relate and summarise the analyses undertaken during the characterisation process. This rigorous process makes Mikromol products valuable tools for the development and validation of non-compendial methods for release and stability testing, for which compendial standards are not necessarily suitable, having been qualified for use with their accompanying monographic methods only.

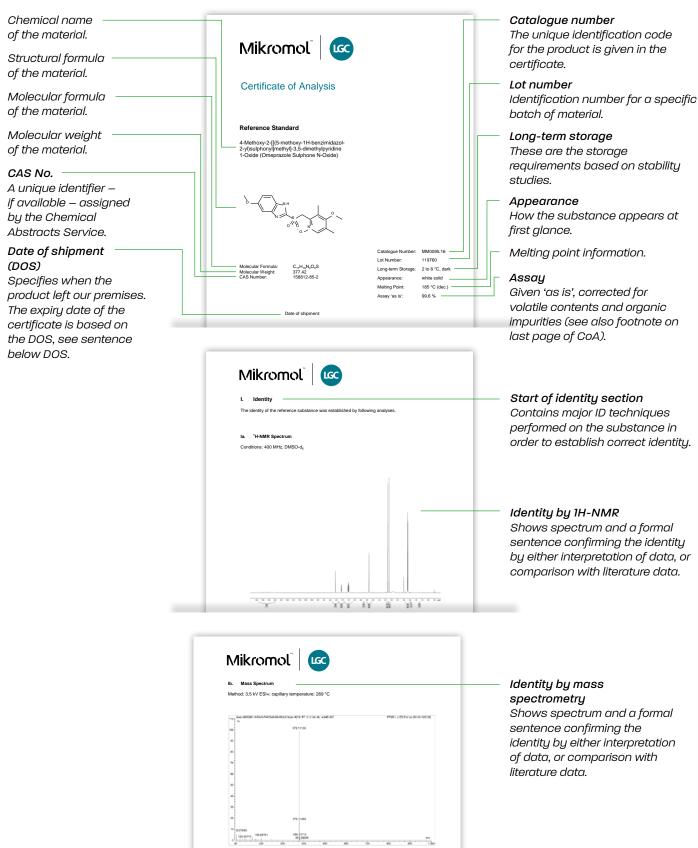
Current Certificates of Analysis for individual lots of products in the range are available on our website, lgcstandards.com/mikromol, on the relevant product page.

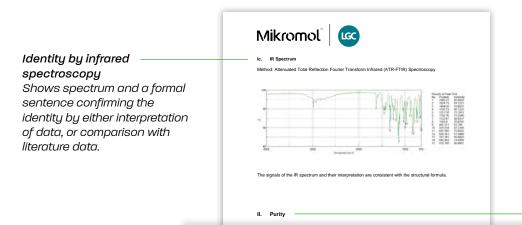
Example details provided for an impurity reference standard:

- I. Identity
- Ia. 1H-NMR Spectrum
- Ib. Mass Spectrum
- Ic. IR Spectrum
- II. Purity
- IIa. High Performance Liquid Chromatography (HPLC)
- Ilb. Water Content
- IIc. Residual Solvents
- III. Final result

Acetylation of 2,6-Dimethylaniline during the synthesis of Lidocaine. (Impurity N-(2,6-Dimethylphenyl) acetamide, MM0102.08)

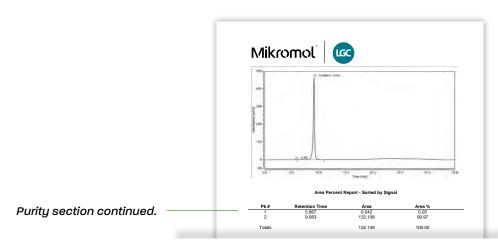
How to read your Certificate of Analysis (CoA).





Purity section

Usually contains HPLC data to assess the organic purity of the material, as well as data on water and residual solvent content (continues on next pages).





Best in class. Best for you.

You can easily order online at Igostandards.com/Mikromol, open 24/7 for your convenience. With just a few clicks, you can:

- Add items to your basket, including a bulk order function to upload a multiple-item order at once
- Save or send your quote before converting it into an order
- Proceed when you are ready with payment, using an account, a credit card or a purchase order

Stay tuned with Mikromol:



lgcstandards.com/mikromol mikromol@lgcgroup.com

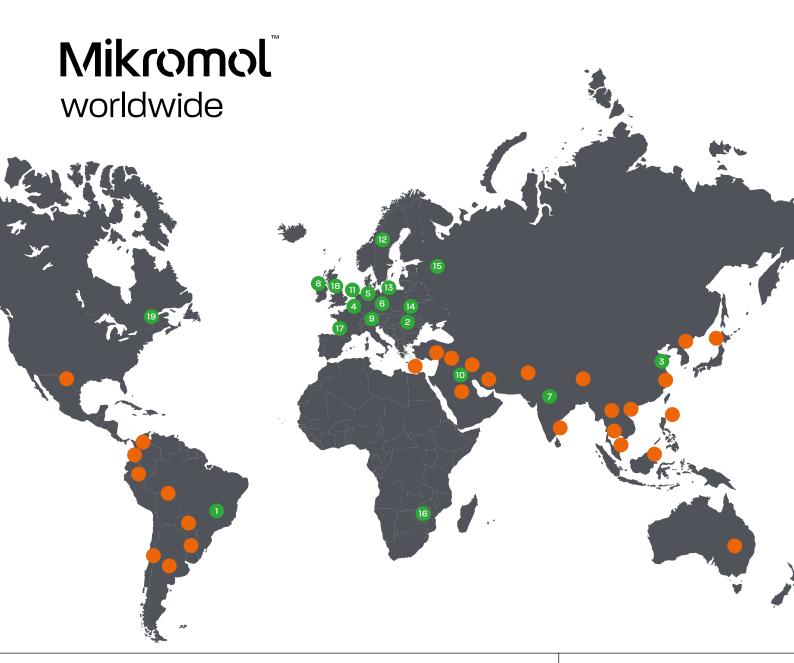
(in) LGCMikromol

@LGCMikromol

or contact your local sales office using the details listed on the inside back cover







- 1 Brazil
- T +55 12 3302 5880
- E bz@lgcstandards.com
- 2 Bulgaria
- T +359 (0)2 971 4955
- E bg@lgcgroup.com
- 3 China
- T +86 400 9216156
- E info.china@lgcgroup.com
- 4 France
- T +33 (0)3 88 04 82 82
- E fr@lgcstandards.com
- 5 Germany
- T +49 (0)281 9887 0
- E de@lgcstandards.com
- 6 Hungary
- T +49 (0)281 9887 0
- E de@lgcstandards.com
- 7 India
- T +91 9082974025
- E india@lgcgroup.com

- 8 Ireland
- T +44 (0)20 8943 8480
- E uksales@lgcstandards.com
- 9 Italy
- T +39 02 22476412
- E it@lgcstandards.com
- 10 Middle East
- T +49 (0) 281 9887 270
- E global.sales@lgcgroup.com
- 11 Netherlands
- T +49 (0)281 9887 250
- E de@lgcstandards.com
- 12 Nordic countries
- T +49 (0)281 9887 0
- E de@lgcstandards.com
- 13 Poland
- T +48 22 751 31 40
- E pl@lgcgroup.com
- 14 Romania
- T +49 (0)281 9887 0
- E de@lgcstandards.com

- 15 Russia
- T +7 812 777 04 88
- E ru@lgcgroup.com
- 16 South Africa
- T +27 (0)11 466 4321
- E sales.za@lgcgroup.com
- 17 Spain
- T +34 (0)93 308 4181
- E es@lgcstandards.com
- 18 UK reference materials
- T +44 (0)20 8943 8480
- E uksales@lgcstandards.com
- 19 USA + Canada
- T +1 (603) 622 7660
- E lgcusa@lgcgroup.com
- **Export queries**
- T +49 (0) 281 9887 270
- E global.sales@lgcgroup.com

LGC does not guarantee availability and reserves the right to discontinue any product. LGC does not accept liability for any loss that is caused by inaccurate customer selection, product information or inappropriate use of a product. Unless otherwise stated all trademarks are the property of LGC or its affiliated group companies. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording or any retrieval system, without the written permission of the copyright holder.

Copyright @ LGC Limited 2019. All rights reserved. Mikromol is a trademark owned by LGC GmbH.



