LC Technical Note

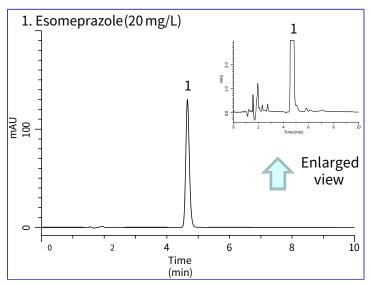
GL Sciences Inc.

Assay Test for Esomeprazole Magnesium Delayed -Release Capsules under USP Method

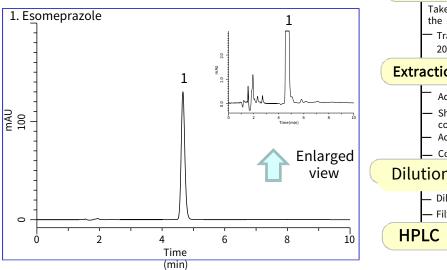
Esomeprazole Magnesium is a proton-pump inhibitor drug product. It is used for the treatment of gastric ulcers, duodenal ulcers and eradication of Helicobacter pylori.

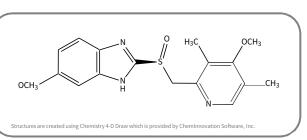
In this note, Assay test results conducted under the United States Pharmacopeia (USP) by using InertSustain C18 are shown.

Standard solution



Capsule Sample





Conditions (USP)

Injection Vol.

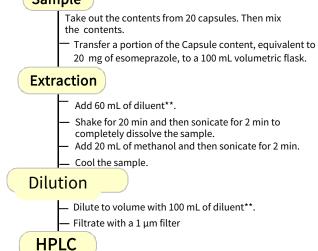
Analytical column : InertSustain C18	
	(5 μm, 150 x 4.6 mm I.D.)
Column Cat. No.	: 5020-07345
Eluent Flow rate	: Buffer* : 1.0 mL/min
Column temp.	: 25 °C
Detection	: UV 302 nm

:20 µL

* Buffer: a pH 7.3 phosphate buffer was prepared by mixing 10.5 mL of 1.0 M monobasic sodium phosphate buffer with 60 mL of 0.5M dibasic sodium phosphate buffer and then diluted with 1000 mL of water.

 $350 \rm mL$ of acetonitrile for HPLC is added to $500 \rm ~mL$ of the solution above and then diluted with water to $1000 \rm ~mL.$

Example of Pretreatment Method for Capsule Sample



GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

GL Sciences Inc. Japan 22-1 Nishishinjuku 6-chome Shinjuku-ku, Tokyo 163-1130, Japan

Phone: +81-3-5323-6620 Fax: +81-3-5323-6621 Email: <u>world@gls.co.jp</u> Web: www.glsciences.com



International Distributors Visit our Website at www.glsciences.com/distributors

GL Sciences Inc. USA 4733 Torrance Blvd. Suite 255 Torrance, CA 90503 USA

Phone: +1-310-265-4424 Fax: +1-310-265-4425 Email: info@glsciencesinc.com Web: www.glsciencesinc.com GL Sciences B.V. Dillenburgstraat 7C 5652AM, Eindhoven The Netherlands

Phone: +31-40-254-9531 Email: info@glsciences.eu Web: www.glsciences.eu <u>GL Sciences (Shanghai) Limited</u> Tower B, Room 2003 Far East International Plaza No.317 Xianxia Road, Changning District Shanghai, China 200051

Phone: +86-21-62782272 Email: contact@glsciences.com.cn Web: www.glsciences.com.cn