



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 08/24/2023 15:49 Received: 08/24/2023 15:49

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Tamoxifen, None Detected, ng/mL, QCRL.

Reporting Limit: 1.0 ng/mL

Synonym(s): Nolvadex(R)
Tamoxifen undergoes demethylation to N-desmethyltamoxifen and tamoxifen and N-desmethyltamoxifen are hydroxylated to 4-hydroxytamoxifen and 4-hydroxy-N-desmethyltamoxifen (endoxifen), respectively. Tamoxifen is a prodrug; the pharmacological effects are mediated through its hydroxylated metabolites. A dose-concentration relationship has been identified for tamoxifen. In patients receiving 1, 5, or 20 mg/day tamoxifen for 28 days, mean (range) plasma tamoxifen concentrations were: 1 mg/day = 7.5 (2.9-120.9) ng/mL 5 mg/day = 25.2 (1.9-180.9) ng/mL 20 mg/day = 83.6 (8.7-134.4) ng/mL. Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: N-desmethyltamoxifen, None Detected, ng/mL, QCRL.

Reporting Limit: 1.0 ng/mL

Synonym(s): Tamoxifen Metabolite
A dose-concentration relationship has been identified for N-desmethyltamoxifen, an inactive tamoxifen metabolite. In patients receiving 1, 5, or 20 mg/day tamoxifen for 28 days, mean (range) plasma N-desmethyltamoxifen concentrations were: 1 mg/day = 9.9 (1.3-135) ng/mL 5 mg/day = 36.2 (3.6-282.2) ng/mL 20 mg/day = 112.3 (14.3-211.6) ng/mL. Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Endoxifen, None Detected, ng/mL, QCRL.

Reporting Limit: 1.0 ng/mL

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED



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Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Contains detailed text for 4-Hydroxy-Tamoxifen test, including synonym(s), hydroxylation process, and analysis method.

4-Hydroxy-Tamoxifen None Detected ng/mL QCRL

Reporting Limit: 1.0 ng/mL

Synonym(s): Tamoxifen Metabolite
A dose-concentration relationship has been identified for 4-hydroxytamoxifen, an active tamoxifen metabolite.
In patients receiving 1, 5, or 20 mg/day tamoxifen for 28 days, mean (range) plasma 4-hydroxytamoxifen concentrations were:
1 mg/day = 0.6 (0.4-6.0) ng/mL
5 mg/day = 1.3 (0.4-5.9) ng/mL
20 mg/day = 3.1 (0.4-7.3) ng/mL
Hydroxylation of tamoxifen to 4-hydroxytamoxifen is catalyzed by CYP2D6 and genetic polymorphisms which result in low CYP2D6 activity (poor metabolizers) or co-administration of drugs which inhibit CYP2D6 can greatly reduce plasma concentrations of 4-hydroxytamoxifen reducing the overall efficacy of tamoxifen.
Analysis by High Performance Liquid Chromatography/ Tandem Mass Spectrometry (LC-MS/MS)
This test was developed and its performance characteristics determined by NMS Labs. It has not

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Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Content includes 'been cleared or approved by the US Food and Drug Administration' and 'Test Performed at: NMS Labs 200 Welsh Rd.'

Performing Site:
QCRL: QUEST DIAGNOSTICS REFERENCE LAB CAPISTRANO 33608 Ortega Highway San Juan Capistrano CA 92675

Reported Date: 2023.08.24 15:49 TAMOX

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