MAYO CLINIC
Mayo Medical Laboratories

TEST DEFINITION

12/6/2011

NAME/ORDER CODE CROSS-REFERENCE

CODE	NAME
COMTO	COMT GENOTYPE, SALIVA

TEST SETUP INFORMATION

ORDER CODE	RESULT CODE	TITLE	CHECKING NORMALS	PRINT NORMALS	PERFORM SITE *
COMTO		COMT GENOTYPE, SALIVA			MCR

TRANSPORT TEMP : AMBIENT

32925 REVIEWED BY
UNITS:

32926 CATECHOL METHYLTRANSFERASE GENOTYPE
UNITS:

TEST CODE ALWAYS MESSAGE - [NP0028]

NP0028 DIRECT POLYMORPHISM ANALYSIS FOR 472G>A AND 304G>A IS PERFORMED FOLLOWING PCR AMPLIFICATION. DIRECT DNA TESTING WILL NOT DETECT ALL THE KNOWN MUTATIONS THAT RESULT IN DECREASED OR INACTIVE COMT. ABSENCE OF A DETECTABLE GENE MUTATION OR POLYMORPHISM DOES NOT RULE OUT THE POSSIBILITY THAT A PATIENT HAS AN INTERMEDIATE OR POOR METABOLIZER PHENOTYPE. PATIENTS WITH AN EXTENSIVE OR INTERMEDIATE METABOLIZER GENOTYPE MAY HAVE COMT ENZYME ACTIVITY INHIBITED BY A VARIETY OF MEDICATIONS, OR THEIR METABOLITES. THE FOLLOWING IS A PARTIAL LISTING OF DRUGS KNOWN TO AFFECT COMT ACTIVITY AS OF THE DATE OF THIS REPORT.

DRUGS THAT UNDERGO METABOLISM BY COMT: ALPHA-METHYL DOPA,APOMORPHINE, BENSERAZIDE, BITOLTEROL, DIHYDROXYPHENYLSERINE, DOBUTAMINE, DOPAMINE, EPINEPHRINE, 2-HYDROXYESTROGENS, 4-HYDROXYESTOGENS, ISOETHERINE, ISOPRENALINE, ISOPROTERENAL, NOREPINEPHRINE, RIMITEROL. CO-ADMINISTRATION MAY DECREASE THE RATE OF ELIMINATION OF OTHER DRUGS METABOLIZED BY COMT.

STRUCTURALLY MODIFIED DRUGS THAT ARE NOT METABOLIZED BY

TEST SETUP INFORMATION

ORDER CODE	RESULT CODE	TITLE	CHECKING NORMALS	PRINT NORMALS	PERFORM SITE *
COMTO (CONTINUED...)					

COMT: ALBUTEROL, METAPROTERENOL, METHOXAMINE, PHENYLEPHRINE, PERBUTEROL, TERBUTALINE. CO-ADMINISTRATION WILL NOT DECREASE THE RATE OF METABOLISM OF OTHER DRUGS BY COMT.

DRUGS KNOWN TO INHIBIT COMT ACTIVITY: ENTACAPONE, TOLCAPONE, NITECAPONE. DIETARY COMPONENTS THAT INHIBIT COMT ACTIVITY: QUERCETIN, TEA CATECHINS. CO-ADMINISTRATION WILL DECREASE THE RATE OF METABOLISM OF COMT METABOLIZED DRUGS, INCREASING THE POSSIBILITY OF TOXICITY, INCLUDING HETEROZYGOUS INDIVIDUALS.

TEST CODE ALWAYS MESSAGE - [TLDT]

TLDT LABORATORY DEVELOPED TEST.

*PERFORMING SITE LEGEND

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*** END OF REPORT ***