



NATIONAL MEDICAL SERVICES

December 30, 2005

Dear Valued Client:

In our continuing effort to provide you with the highest quality toxicology laboratory services available, we have compiled the enclosed packet of important changes regarding a number of tests we perform. Listed below are the types of changes included in this packet.

Category	Type of Change
I.	Tests that have had changes to their method/CPT code, units of measurement, scope of analysis or specimen requirements
II.	Tests that have been discontinued
III.	Tests that have had reference comment changes
IV.	Test that have been changed to Screen and Confirmation tests

Please be advised that the changes listed in this packet will go into effect on **April 1, 2006**. Please use this packet of information to update your computer systems/records. These changes are important to ensure standardization of our mutual laboratory databases.

We apologize if this causes you any inconvenience. If you have any questions about the information contained in this packet, please call our Client Support Department at (866) 522-2206. Thank you for your continued support of National Medical Services and your assistance in implementing these changes.

Sincerely,

National Medical Services, Inc.

Database Changes - Summary

Categories:

- I: Method/CPT Code, Units, Scope of Analysis and Specimen Requirements
- II: Deleted tests
- III: Reference comment changes

Test Code	Test Name	Category		
		I	II	III
0885B	Butorphanol Screen - Free (Unconjugated), Blood	•		
0885R	Butorphanol Screen - Free (Unconjugated), RBCs	•		
0885SP	Butorphanol Screen - Free (Unconjugated), Serum/Plasma	•		
0885U	Butorphanol Screen - Total (Conjugated/Unconjugated), Urine	•		
0995U	Carbon Disulfide Exposure Biouptake, Urine	•		
2146SP	Gabapentin, Serum/Plasma		•	
2302U	Organic Acids Panel, Urine	•		
2350B	Hydromorphone Screen - Free (Unconjugated), Blood	•		
2350FL	Hydromorphone Screen - Free (Unconjugated), Fluid	•		
2350SP	Hydromorphone Screen - Free (Unconjugated), Serum/Plasma	•		
2350TI	Hydromorphone Screen - Free (Unconjugated), Tissue	•		
2479B	Ketamine and Metabolite, Blood	•		
2479FL	Ketamine and Metabolite, Fluid	•		
2479SP	Ketamine and Metabolite, Serum/Plasma	•		
2557U	Mandelic Acid, Urine	•		
2994U	Methylhippuric Acid, Urine	•		
3237B	Opiates (Low Dose) Screen - Free (Unconjugated), Blood	•		•
3237SP	Opiates (Low Dose) Screen - Free (Unconjugated), Serum/Plasma	•		•
3237TI	Opiates (Low Dose) Screen - Free (Unconjugated), Tissue	•		
3237U	Opiates (Low Dose) Screen - Total (Conjugated and Unconjugated), Urine	•		
5115B	Butorphanol Confirmation - Free (Unconjugated), Blood	•		
5115R	Butorphanol Confirmation - Free (Unconjugated), RBCs	•		
5115SP	Butorphanol Confirmation - Free (Unconjugated), Serum/Plasma	•		
5115U	Butorphanol Confirmation - Total (Conjugated/Unconjugated), Urine	•		
5116B	Hydromorphone Confirmation - Free (Unconjugated), Blood	•		
5116FL	Hydromorphone Confirmation - Free (Unconjugated), Fluid	•		
5116SP	Hydromorphone Confirmation - Free (Unconjugated), Serum/Plasma	•		
5116TI	Hydromorphone Confirmation - Free (Unconjugated), Tissue	•		
5130U	Ethyl Glucuronide Confirmation, Urine (Forensic)		•	
5424B	Morphine Confirmation - Free (Unconjugated), Blood	•		
5424FL	Morphine Confirmation - Free (Unconjugated), Fluid	•		
5424SP	Morphine Confirmation - Free (Unconjugated), Serum/Plasma	•		
5424TI	Morphine Confirmation - Free (Unconjugated), Tissue	•		
5424U	Morphine Confirmation - Total (Conjugated/Unconjugated), Urine	•		
5533B	Opiates (Low Dose) Confirmation - Free (Unconjugated), Blood			•
5533SP	Opiates (Low Dose) Confirmation - Free (Unconjugated), Serum/Plasma			•
5590B	Opiates (Low Dose) Confirmation - Free (Unconjugated), Blood	•		•
5590SP	Opiates (Low Dose) Confirmation - Free (Unconjugated), Serum/Plasma	•		•
5590TI	Opiates (Low Dose) Confirmation - Free (Unconjugated), Tissue	•		
5590U	Opiates (Low Dose) Confirmation - Total (Conjugated and Unconjugated), Urine	•		
6926H	LSD, Hair (Forensic)	•		
8674B	Opiates - Free and Total, Blood		•	
8674SP	Opiates - Free and Total, Serum/Plasma		•	
9291H	Fentanyl, Hair (Forensic)	•		
9400B	Drugs of Abuse - Medical Professionals, Blood (Forensic)			•
9400SP	Drugs of Abuse - Medical Professionals, Serum/Plasma (Forensic)			•

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Changes effective:
April 1, 2006

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TEST CHANGES – CATEGORY I

Method/CPT Code, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Method/CPT Code Changes	Unit Changes
0885B	Butorphanol Screen - Free (Unconjugated), Blood		
Scope of Analysis: Butorphanol - Free Butorphanol was removed. Butorphanol - Free [ng/mL; LC/MS/MS] was added. Test Name was changed			
0885R	Butorphanol Screen - Free (Unconjugated), RBCs		
Scope of Analysis: Butorphanol - Free Butorphanol was removed. Butorphanol - Free [ng/mL; LC/MS/MS] was added. Test Name was changed.			
0885SP	Butorphanol Screen - Free (Unconjugated), Serum/Plasma		
Scope of Analysis: Butorphanol - Free Butorphanol was removed. Butorphanol - Free [ng/mL; LC/MS/MS] was added. Test Name was changed.			
0885U	Butorphanol Screen - Total (Conjugated/Unconjugated), Urine		
Scope of Analysis: Butorphanol - Total Butorphanol was removed. Butorphanol - Total [ng/mL; LC/MS/MS] was added. Test Name was changed.			
5115B	Butorphanol Confirmation - Free (Unconjugated), Blood		
Scope of Analysis: Butorphanol - Free Butorphanol was removed. Butorphanol - Free [ng/mL; LC/MS/MS] was added. Test Name was changed.			
5115R	Butorphanol Confirmation - Free (Unconjugated), RBCs		
Scope of Analysis: Butorphanol - Free Butorphanol was removed. Butorphanol - Free [ng/mL; LC/MS/MS] was added. Test Name was changed.			
5115SP	Butorphanol Confirmation - Free (Unconjugated), Serum/Plasma		
Scope of Analysis: Butorphanol - Free Butorphanol was removed. Butorphanol - Free [ng/mL; LC/MS/MS] was added. Test Name was changed.			
5115U	Butorphanol Confirmation - Total (Conjugated/Unconjugated), Urine		
Scope of Analysis: Butorphanol - Total Butorphanol was removed. Butorphanol - Total [ng/mL; LC/MS/MS] was added. Test Name was changed.			
0995U	Carbon Disulfide Exposure Biouptake, Urine		
Scope of Analysis: Creatinine, 2-Thiothiazolidine-4-Carboxylic Acid, 2-Thiothiazolidine-4-Carboxylic Acid (Creatinine corrected) 2-Thiothiazolidine-4-Carboxylic Acid (Creatinine correction) was removed. 2-Thiothiazolidine-4-Carboxylic Acid (Creatinine corrected) [mg/g Creat; ICP/MS] was added. Order of reported analytes was changed.			

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Method/CPT Code, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Method/CPT Code Changes	Unit Changes
2350B	Hydromorphone Screen - Free (Unconjugated), Blood Scope of Analysis: Hydromorphone - Free Hydromorphone was removed. Hydromorphone - Free [ng/mL; LC/MS/MS] was added. Test Name was changed.		
2350FL	Hydromorphone Screen - Free (Unconjugated), Fluid Scope of Analysis: Hydromorphone - Free Hydromorphone was removed. Hydromorphone - Free [ng/mL; LC/MS/MS] was added. Test Name was changed.		
2350SP	Hydromorphone Screen - Free (Unconjugated), Serum/Plasma Scope of Analysis: Hydromorphone - Free Hydromorphone was removed. Hydromorphone - Free [ng/mL; LC/MS/MS] was added. Test Name was changed.		
2350TI	Hydromorphone Screen - Free (Unconjugated), Tissue Scope of Analysis: Hydromorphone - Free Hydromorphone was removed. Hydromorphone - Free [ng/g; LC/MS/MS] was added. Test Name was changed.		
5116B	Hydromorphone Confirmation - Free (Unconjugated), Blood Scope of Analysis: Hydromorphone - Free Hydromorphone was removed. Hydromorphone - Free [ng/mL; LC/MS/MS] was added. Test Name was changed.		
5116FL	Hydromorphone Confirmation - Free (Unconjugated), Fluid Scope of Analysis: Hydromorphone - Free Hydromorphone was removed. Hydromorphone - Free [ng/mL; LC/MS/MS] was added. Test Name was changed.		
5116SP	Hydromorphone Confirmation - Free (Unconjugated), Serum/Plasma Scope of Analysis: Hydromorphone - Free Hydromorphone was removed. Hydromorphone - Free [ng/mL; LC/MS/MS] was added. Test Name was changed.		
5116TI	Hydromorphone Confirmation - Free (Unconjugated), Tissue Scope of Analysis: Hydromorphone - Free Hydromorphone was removed. Hydromorphone - Free [ng/g; LC/MS/MS] was added. Test Name was changed.		
2479B	Ketamine and Metabolite, Blood Scope of Analysis: Ketamine, Norketamine Method was changed.	GC/MS (82492)	
2479FL	Ketamine and Metabolite, Fluid Scope of Analysis: Ketamine, Norketamine Method was changed.	GC/MS (82492)	

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Test Code	Test Name	Method/CPT Code Changes	Unit Changes
2479SP	Ketamine and Metabolite, Serum/Plasma Scope of Analysis: Ketamine, Norketamine Method was changed.	GC/MS (82492)	
2557U	Mandelic Acid, Urine Scope of Analysis: Creatinine, Mandelic Acid, Mandelic Acid (Creatinine corrected) Mandelic Acid (Creatinine correction) was removed. Mandelic Acid (Creatinine corrected) [g/g Creat; IC] was added.		
2994U	Methylhippuric Acid, Urine Scope of Analysis: Creatinine, Methylhippuric Acid, Methylhippuric Acid (Creatinine corrected) Methylhippuric Acid (Creatinine correction) was removed. Methylhippuric Acid (Creatinine corrected) [g/g Creat; IC] was added.		
5424B	Morphine Confirmation - Free (Unconjugated), Blood Test Name was changed.		
5424FL	Morphine Confirmation - Free (Unconjugated), Fluid Test Name was changed.		
5424SP	Morphine Confirmation - Free (Unconjugated), Serum/Plasma Test Name was changed.		
5424TI	Morphine Confirmation - Free (Unconjugated), Tissue Test Name was changed.		
5424U	Morphine Confirmation - Total (Conjugated/Unconjugated), Urine Test Name was changed.		
3237B	Opiates (Low Dose) Screen - Free (Unconjugated), Blood Scope of Analysis: Morphine - Free, Hydromorphone - Free, Naltrexone - Free, Buprenorphine - Free, Norbuprenorphine - Free, Butorphanol - Free, Nalbuphine - Free, Naloxone - Free Morphine, Hydromorphone, Naltrexone, Buprenorphine, Norbuprenorphine, Butorphanol, Nalbuphine and Naloxone were removed. Morphine - Free [ng/mL; LC/MS/MS], Hydromorphone - Free [ng/mL; LC/MS/MS], Naltrexone - Free [ng/mL; LC/MS/MS], Buprenorphine - Free [ng/mL; LC/MS/MS], Norbuprenorphine - Free [ng/mL; LC/MS/MS], Butorphanol - Free [ng/mL; LC/MS/MS], Nalbuphine - Free [ng/mL; LC/MS/MS] and Naloxone - Free [ng/mL; LC/MS/MS] were added. Test Name was changed.		
3237SP	Opiates (Low Dose) Screen - Free (Unconjugated), Serum/Plasma Scope of Analysis: Morphine - Free, Hydromorphone - Free, Naltrexone - Free, Buprenorphine - Free, Norbuprenorphine - Free, Butorphanol - Free, Nalbuphine - Free, Naloxone - Free Morphine, Hydromorphone, Naltrexone, Buprenorphine, Norbuprenorphine, Butorphanol, Nalbuphine and Naloxone were removed. Morphine - Free [ng/mL; LC/MS/MS], Hydromorphone - Free [ng/mL; LC/MS/MS], Naltrexone - Free [ng/mL; LC/MS/MS], Buprenorphine - Free [ng/mL; LC/MS/MS], Norbuprenorphine - Free [ng/mL; LC/MS/MS], Butorphanol - Free [ng/mL; LC/MS/MS], Nalbuphine - Free [ng/mL; LC/MS/MS] and Naloxone - Free [ng/mL; LC/MS/MS] were added. Test Name was changed.		

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TEST CHANGES – CATEGORY I

Method/CPT Code, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Method/CPT Code Changes	Unit Changes
3237TI	Opiates (Low Dose) Screen - Free (Unconjugated), Tissue Scope of Analysis: Morphine - Free, Hydromorphone - Free, Naltrexone - Free, Buprenorphine - Free, Norbuprenorphine - Free, Butorphanol - Free, Nalbuphine - Free, Naloxone - Free Morphine, Hydromorphone, Naltrexone, Buprenorphine, Norbuprenorphine, Butorphanol, Nalbuphine and Naloxone were removed. Morphine - Free [ng/g; LC/MS/MS], Hydromorphone - Free [ng/g; LC/MS/MS], Naltrexone - Free [ng/g; LC/MS/MS], Buprenorphine - Free [ng/g; LC/MS/MS], Norbuprenorphine - Free [ng/g; LC/MS/MS], Butorphanol - Free [ng/g; LC/MS/MS], Nalbuphine - Free [ng/g; LC/MS/MS] and Naloxone - Free [ng/g; LC/MS/MS] were added. Test Name was changed.		
3237U	Opiates (Low Dose) Screen - Total (Conjugated and Unconjugated), Urine Scope of Analysis: Morphine - Free, Hydromorphone - Free, Naltrexone - Free, Buprenorphine - Free, Norbuprenorphine - Free, Butorphanol - Free, Nalbuphine - Free, Naloxone - Free Morphine, Hydromorphone, Naltrexone, Buprenorphine, Norbuprenorphine, Butorphanol, Nalbuphine and Naloxone were removed. Morphine - Total [ng/mL; LC/MS/MS], Hydromorphone - Total [ng/mL; LC/MS/MS], Naltrexone - Total [ng/mL; LC/MS/MS], Buprenorphine - Total [ng/mL; LC/MS/MS], Norbuprenorphine - Total [ng/mL; LC/MS/MS], Butorphanol - Total [ng/mL; LC/MS/MS], Nalbuphine - Total [ng/mL; LC/MS/MS] and Naloxone - Total [ng/mL; LC/MS/MS] were added. Test Name was changed.		
5590B	Opiates (Low Dose) Confirmation - Free (Unconjugated), Blood Scope of Analysis: Morphine - Free, Hydromorphone - Free, Naltrexone - Free, Buprenorphine - Free, Norbuprenorphine - Free, Butorphanol - Free, Nalbuphine - Free, Naloxone - Free Morphine, Hydromorphone, Naltrexone, Buprenorphine, Norbuprenorphine, Butorphanol, Nalbuphine and Naloxone were removed. Morphine - Free [ng/mL; LC/MS/MS], Hydromorphone - Free [ng/mL; LC/MS/MS], Naltrexone - Free [ng/mL; LC/MS/MS], Buprenorphine - Free [ng/mL; LC/MS/MS], Norbuprenorphine - Free [ng/mL; LC/MS/MS], Butorphanol - Free [ng/mL; LC/MS/MS], Nalbuphine - Free [ng/mL; LC/MS/MS] and Naloxone - Free [ng/mL; LC/MS/MS] were added. Test Name was changed.		
5590SP	Opiates (Low Dose) Confirmation - Free (Unconjugated), Serum/Plasma Scope of Analysis: Morphine - Free, Hydromorphone - Free, Naltrexone - Free, Buprenorphine - Free, Norbuprenorphine - Free, Butorphanol - Free, Nalbuphine - Free, Naloxone - Free Morphine, Hydromorphone, Naltrexone, Buprenorphine, Norbuprenorphine, Butorphanol, Nalbuphine and Naloxone were removed. Morphine - Free [ng/mL; LC/MS/MS], Hydromorphone - Free [ng/mL; LC/MS/MS], Naltrexone - Free [ng/mL; LC/MS/MS], Buprenorphine - Free [ng/mL; LC/MS/MS], Norbuprenorphine - Free [ng/mL; LC/MS/MS], Butorphanol - Free [ng/mL; LC/MS/MS], Nalbuphine - Free [ng/mL; LC/MS/MS] and Naloxone - Free [ng/mL; LC/MS/MS] were added. Test Name was changed.		

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TEST CHANGES – CATEGORY I

Method/CPT Code, Units of Measurement, Scope of Analysis and Specimen Requirements

Test Code	Test Name	Method/CPT Code Changes	Unit Changes
5590TI	Opiates (Low Dose) Confirmation - Free (Unconjugated), Tissue		
<p>Scope of Analysis: Morphine - Free, Hydromorphone - Free, Naltrexone - Free, Buprenorphine - Free, Norbuprenorphine - Free, Butorphanol - Free, Nalbuphine - Free, Naloxone - Free Morphine, Hydromorphone, Naltrexone, Buprenorphine, Norbuprenorphine, Butorphanol, Nalbuphine and Naloxone were removed. Morphine - Free [ng/g; LC/MS/MS], Hydromorphone - Free [ng/g; LC/MS/MS], Naltrexone - Free [ng/g; LC/MS/MS], Buprenorphine - Free [ng/g; LC/MS/MS], Norbuprenorphine - Free [ng/g; LC/MS/MS], Butorphanol - Free [ng/g; LC/MS/MS], Nalbuphine - Free [ng/g; LC/MS/MS] and Naloxone - Free [ng/g; LC/MS/MS] were added. Test Name was changed.</p>			
5590U	Opiates (Low Dose) Confirmation - Total (Conjugated and Unconjugated), Urine		
<p>Scope of Analysis: Morphine - Free, Hydromorphone - Free, Naltrexone - Free, Buprenorphine - Free, Norbuprenorphine - Free, Butorphanol - Free, Nalbuphine - Free, Naloxone - Free Morphine, Hydromorphone, Naltrexone, Buprenorphine, Norbuprenorphine, Butorphanol, Nalbuphine and Naloxone were removed. Morphine - Total [ng/mL; LC/MS/MS], Hydromorphone - Total [ng/mL; LC/MS/MS], Naltrexone - Total [ng/mL; LC/MS/MS], Buprenorphine - Total [ng/mL; LC/MS/MS], Norbuprenorphine - Total [ng/mL; LC/MS/MS], Butorphanol - Total [ng/mL; LC/MS/MS], Nalbuphine - Total [ng/mL; LC/MS/MS] and Naloxone - Total [ng/mL; LC/MS/MS] were added. Test Name was changed.</p>			
2302U	Organic Acids Panel, Urine		
<p>Scope of Analysis: Creatinine, Hippuric Acid, Hippuric Acid (Creatinine corrected), Mandelic Acid, Mandelic Acid (Creatinine corrected), Phenylglyoxylic Acid, Phenylglyoxylic Acid (Creatinine corrected), Methylhippuric Acid, Methylhippuric Acid (Creatinine corrected) Hippuric Acid (Creatinine correction), Mandelic Acid (Creatinine correction), Phenylglyoxylic Acid (Creatinine correction) and Methylhippuric Acid (Creatinine correction) were removed. Hippuric Acid (Creatinine corrected) [g/g Creat; IC], Mandelic Acid (Creatinine corrected) [g/g Creat; IC], Phenylglyoxylic Acid (Creatinine corrected) [g/g Creat; IC] and Methylhippuric Acid (Creatinine corrected) [g/g Creat; IC] were added. Order of reported analytes was changed.</p>			

DISCONTINUED TESTS – CATEGORY II

Test Code	Test Name	Alternative Test
5130U	Ethyl Glucuronide Confirmation, Urine (Forensic)	5131U Ethyl Glucuronide Confirmation, Urine (Forensic)
2146SP	Gabapentin, Serum/Plasma	2143SP Gabapentin, Serum/Plasma
8674B	Opiates - Free and Total, Blood	8671B Opiates - Free and Total, Blood
8674SP	Opiates - Free and Total, Serum/Plasma	8671SP Opiates - Free and Total, Serum/Plasma

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REFERENCE COMMENT CHANGES – CATEGORY III

Test Code	Test Name / Compound	New Reference Comment
9400B	Drugs of Abuse - Medical Professionals, Blood (Forensic) <ul style="list-style-type: none"> Nalbuphine 	Peak plasma concentrations between 38 and 59 ng/mL were reported following a 10 mg IM dose.
9400SP	Drugs of Abuse - Medical Professionals, Serum/Plasma (Forensic) <ul style="list-style-type: none"> Nalbuphine 	Peak plasma concentrations between 38 and 59 ng/mL were reported following a 10 mg IM dose.
3237B	Opiates (Low Dose) Screen - Free (Unconjugated), Blood <ul style="list-style-type: none"> Nalbuphine 	Peak plasma concentrations between 38 and 59 ng/mL were reported following a 10 mg IM dose.
3237SP	Opiates (Low Dose) Screen - Free (Unconjugated), Serum/Plasma <ul style="list-style-type: none"> Nalbuphine 	Peak plasma concentrations between 38 and 59 ng/mL were reported following a 10 mg IM dose.
5533B	Opiates (Low Dose) Confirmation - Free (Unconjugated), Blood <ul style="list-style-type: none"> Nalbuphine 	Peak plasma concentrations between 38 and 59 ng/mL were reported following a 10 mg IM dose.
5533SP	Opiates (Low Dose) Confirmation - Free (Unconjugated), Serum/Plasma <ul style="list-style-type: none"> Nalbuphine 	Peak plasma concentrations between 38 and 59 ng/mL were reported following a 10 mg IM dose.
5590B	Opiates (Low Dose) Confirmation - Free (Unconjugated), Blood <ul style="list-style-type: none"> Nalbuphine 	Peak plasma concentrations between 38 and 59 ng/mL were reported following a 10 mg IM dose.
5590SP	Opiates (Low Dose) Confirmation - Free (Unconjugated), Serum/Plasma <ul style="list-style-type: none"> Nalbuphine 	Peak plasma concentrations between 38 and 59 ng/mL were reported following a 10 mg IM dose.

CATEGORY IV

The following tests have been changed to Screen and Confirmation tests

Screen Test	Confirmation Test
9291H Fentanyl Screen, Hair (Forensic)	5251H Fentanyl Confirmation, Hair (Forensic)
6926H LSD Screen, Hair (Forensic)	5252H LSD Confirmation, Hair (Forensic)