

## Comprehensive Metabolic Panels from Quest and LabCorp/PCS

When I do a functional blood chemistry analysis, I look for optimal ranges of all the markers in the SMAC 24 test, a panel that included 20 blood chemistry tests + lipids & triglycerides.

The current version of Quest's Comprehensive Metabolic Panel has only 17 tests as does LabCorp's. They both leave out several important markers that we cross-reference with other results in order to determine the likelihood of reactive hypoglycemia, adrenal issues, etc.

Missing tests: GGT, LDH, uric acid, phosphorus and anion gap (calculated from electrolyte #s).

Quest's closest metabolic panel: **COMP METABOLIC PLUS 5 WITH CBC 314770X**

6399X - CBC (INCLUDES DIFF/PLT)

[334X](#) - CHOLESTEROL, TOTAL

[482X](#) - GGT

[593X](#) - LACTATE DEHYDROGENASE (LDH)

[905X](#) - URIC ACID, SERUM

is still missing phosphorus, so add [718X](#) - PHOSPHORUS, SERUM

Ordering **COMP METABOLIC PLUS 2,LIPID,CBC,TSH 314777X**, the tests in red will be missing.

With **COMP METABOLIC PLUS 5 WITH CBC 314770X** one must order the lipid panel and thyroid tests in addition.

**Quest: 8000 META COMP (17 items)**

### COMPREHENSIVE METABOLIC PANEL

SODIUM, SERUM

POTASSIUM, SERUM

CHLORIDE, SERUM

CO2 (Carbon Dioxide)

BUN (Urea Nitrogen,Blood)

CREATININE, SERUM

*eGFR*

GLUCOSE

CALCIUM, SERUM

PROTEIN, Total

ALBUMIN

GLOBULIN, Total

A/G RATIO

AST (SGOT)

ALT (SGPT)

BILIRUBIN, Total

ALKALINE PHOSPHATASE

**COMP METABOLIC PLUS 5 WITH CBC 314770X**

+ CBC (INCLUDES DIFF/PLT)

TOTAL CHOLESTEROL only

(must add **Lipid Panel** for HDL, LDL,

VLDL, Triglycerides

GGT

LDH

URIC ACID, serum

**PCS\* (LabCorp): (17 items)**

### Metabolic Panel Comprehensive (14) (PCS 20)

SODIUM

POTASSIUM

CHLORIDE

CO2

BUN

CREATININE

*BUN: CREATININE RATIO*

GLUCOSE

CALCIUM

PROTEIN, Total

ALBUMIN

GLOBULIN

A/G RATIO

AST (SGOT)

ALT (SGPT)

BILIRUBIN

ALKALINE PHOSPHATASE

**OPTI-CHEM (PCS 69) + Metabolic Panel +**

CBC (INCLUDES DIFF/PLT)

LIPID PANEL (Triglycerides, Total Cholesterol,

HDL, LDL, VLDL etc.)

GGT

LDH

URIC ACID, serum continued, p. 2

**must add:**  
[718X](#) - PHOSPHORUS, Serum

**included in PCS Opti-Chem:**  
PHOSPHORUS

**THYROID tests:**  
TSH, TT4, T3U, FT3  
Thyroid antibodies if not tested previously

IRON  
MAGNESIUM (serum, not RBC)  
TSH, TT4, T3U  
Urinalysis

HA1c  
TIBC, Ferritin  
hs CRP

**must add:**  
FT3  
Thyroid antibodies if not tested previously  
HA1c

**Included in PCS Opti-Plus D (139)**  
Vit D 25  
HA1c  
TIBC, Ferritin  
hs CRP

**\* PCS = Professional Co-Op, a discount lab that  
uses LabCorp.**