





Bootcamp

Optimizing Labs

Below is a list of optimal lab values for the labs that Dr Kruse recommends based on your health history. Your results may vary depending on your own n=1. You can review a complete list of optimizing labs on Dr. Kruse's blog: What are the Optimizing Labs?

ASI Normal total cortisol with correct diurnal pattern over normal DHEA level

Glucose 88 or below

This should be a fasting glucose reading, meaning you didn't have anything to eat or

drink 12 hours before the test

A1C Below 5.0

DHT Top quartile

Triglicerides Below 75

HDL 60+

Telomeres Length shouldn't be higher than biologic age

VO2 Max

Classes of Mitochondrial Fitness: Find your class by testing your initial VO2 max and plugging in your Epi-paleo Rx exercise routine.

< 20 ml/kg/min You should walk 15 min 5-7 days per only

< 20-25 ml/kg/min You should perform 15 minutes of aerobic work 5-7 days a week with one anaerobic

interval An anaerobic interval = 0-5 sec.

< 25-30 ml/kg/min You should perform 20 minutes of aerobic activity with 2 anaerobic Intervals 4-5

times a week. An Interval = 5-15 sec

< 30-35 ml/kg/min You should perform 20 min of HIIT with 4 Intervals 4 times per week where each

anaerobic Interval is 5-15 sec.

< 35-40 ml/kg/min You should perform 20 minutes of HIIT 3 times a week with 4 Intervals where each

Interval is 15-30 sec , where recovery is 3-5 sec. You can also add 30 minutes of

steady state cardio (sprints) once a week

<40-45 ml/kg/min You should perform 20 minutes of HIIT 3 times a week with 5+ Intervals 3 days a

week. Intervals can be >30 sec. Recovery can be 1-2 minutes.

45+ ml/kg/min You should perform 20 min of HIIT with 6 Intervals 3 days a week. The Interval is >45

sec and your recovery must be less than 1 minute.

Note: If one begins to use my cold thermogenesis protocol on my blog, you should only use the protocol if your VO2max is 25ml/kg/min Please refer to it on my Cold protocol blog post.

Men

Vit D 70-120 Highly-Sensitive CRP <.5

CO2 25 or above Sex-Hormone Binding Globuline 25 or below

Estrodial (E2) <25

IGF-1 225 or above

Free T3 3.3+ Free T4 1.5+

Free Testosterone Top quartile to top 10%

TSH .5 to 1.0 Pregnenalone <130

Progesterone Top quartile to top 10%

DHEA Top 10% to 25% over reference range

Cortisol Normal diurnal pattern

Women

Women may want to have their labs done on day 21 to ascertain fertility and optimal functioning of the endocrine system.

 Vit D
 70-120

 HSCRP
 < .5</td>

CO2 25 or above 25 or below top quartline 1GF-1 220 or above 3.0 or above

 Free T4
 1.5+

 Free Testosterone
 Top 10%

 Total Testosterone
 35+

 TSH
 .5 to 1.0

 Progesterone
 Top 10%

 Estrogen
 Top 10%

DHEA Top 25% to 10% over reference range

130+

Mitochondrial Lab values

Pregnenalone

Bun/Creatine =/< 10:1

CO2