

# Using the Catalyst\* Total T<sub>4</sub> Test

## Storage and handling requirements

- Store in the refrigerator. Do not freeze.
- No warming required—run directly from the refrigerator.
- Total T<sub>4</sub> (TT<sub>4</sub>) slides and reagent can be stored in their pouch at room temperature for up to 8 hours. After 8 hours, store any unused materials in the refrigerator.
- Recommended sample volume:
  - Whole blood: 600–800  $\mu$ L
  - Serum/plasma: 65  $\mu$ L (300  $\mu$ L if running with other slides)

## Total T<sub>4</sub> made simple—load and go

Catalyst One\*



Load TT<sub>4</sub> slide here      Load reagent here

Catalyst Dx\*



Load TT<sub>4</sub> slide here      Load reagent here

## Frequently asked questions

| Question  | Answer  |                        |            |                        |        |                     |                  |        |                     |                  |
|---|---|------------------------|------------|------------------------|--------|---------------------|------------------|--------|---------------------|------------------|
| Is the Catalyst* Total T <sub>4</sub> Test just a slide?  | No, the Catalyst* Total T <sub>4</sub> Test contains a single slide and a reagent (conjugate, wash, and substrate). Both components must be run together for each sample run and then discarded.  |                        |            |                        |        |                     |                  |        |                     |                  |
| What sample types can be run on the total T <sub>4</sub> test?  | Compatible sample types include serum, lithium heparin plasma, and whole blood using the Catalyst* Lithium Heparin Whole Blood Separator.   |                        |            |                        |        |                     |                  |        |                     |                  |
| What species can be run on the total T <sub>4</sub> test?   | Canine and feline species are supported with total T <sub>4</sub> .   |                        |            |                        |        |                     |                  |        |                     |                  |
| Can the total T <sub>4</sub> test be run with other slides?   | Yes! The total T <sub>4</sub> test can be run alone or with other slides as part of a comprehensive patient profile. For example, you could run a Catalyst* Lyte 4 CLIP, a Catalyst* Chem 17 CLIP, and a total T <sub>4</sub> test with one patient sample.   |                        |            |                        |        |                     |                  |        |                     |                  |
| When running with other slides, should the total T <sub>4</sub> test be loaded in a particular order?       | <p><b>Catalyst One:</b> When running total T<sub>4</sub> with other chemistry slides, the total T<sub>4</sub> slide can be loaded in any order.</p> <p><b>Catalyst Dx:</b> If there are 18 slides or less in the run, the total T<sub>4</sub> slide can be loaded in any order. For Catalyst Dx runs containing more than 18 slides, load the total T<sub>4</sub> slide last (on the top of the slide stack).</p> <p>For more information about the slide order for other chemistries, see the <i>Catalyst Chemistry Analyzer Operator's Guide</i>.</p> |                        |            |                        |        |                     |                  |        |                     |                  |
| At what range will the total T <sub>4</sub> test report a numerical result?                                 | <table border="1"> <thead> <tr> <th>Species</th> <th>U.S. Units</th> <th>S.I./French S.I. Units</th> </tr> </thead> <tbody> <tr> <td>Canine</td> <td>0.5–10.0 <math>\mu</math>g/dL</td> <td>6.4–128.7 nmol/L</td> </tr> <tr> <td>Feline</td> <td>0.5–20.0 <math>\mu</math>g/dL</td> <td>6.4–257.4 nmol/L</td> </tr> </tbody> </table>   | Species                | U.S. Units | S.I./French S.I. Units | Canine | 0.5–10.0 $\mu$ g/dL | 6.4–128.7 nmol/L | Feline | 0.5–20.0 $\mu$ g/dL | 6.4–257.4 nmol/L |
| Species   | U.S. Units  | S.I./French S.I. Units |            |                        |        |                     |                  |        |                     |                  |
| Canine  | 0.5–10.0 $\mu$ g/dL   | 6.4–128.7 nmol/L       |            |                        |        |                     |                  |        |                     |                  |
| Feline  | 0.5–20.0 $\mu$ g/dL   | 6.4–257.4 nmol/L       |            |                        |        |                     |                  |        |                     |                  |
| What is the run time for the total T <sub>4</sub> test?   | Total T <sub>4</sub> test results are available in approximately 15 minutes after the start of the run.   |                        |            |                        |        |                     |                  |        |                     |                  |
| Is it okay to dilute samples that are undergoing total T <sub>4</sub> testing?                              | IDEXX does not support the use of diluted samples when running the Catalyst Total T <sub>4</sub> Test.  |                        |            |                        |        |                     |                  |        |                     |                  |
| How often can total T <sub>4</sub> tests be left at room temperature and then returned to the refrigerator? | Once at room temperature, total T <sub>4</sub> tests can be returned to the refrigerator up to 5 times as long as the foil pouch is unopened.   |                        |            |                        |        |                     |                  |        |                     |                  |
| What if a total T <sub>4</sub> test is accidentally frozen?   | Any tests suspected of being frozen should be allowed to thaw at room temperature for at least 30 minutes before use.   |                        |            |                        |        |                     |                  |        |                     |                  |
| Should I run quality control for total T <sub>4</sub> ?   | Quality control is not required but is available through IDEXX Technical Support.   |                        |            |                        |        |                     |                  |        |                     |                  |

For more information about running the Catalyst Total T<sub>4</sub> Test, consult the operator's guide for your Catalyst Dx\* Chemistry Analyzer or Catalyst One\* Chemistry Analyzer. For additional information, please contact IDEXX Technical Support.

### IDEXX Technical Support

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