

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Canine—Puppy	
	U.S. Units	S.I. Units
ALB	2.1–3.6 g/dL	21–36 g/L
ALKP	46–337 U/L	46–337 U/L
ALT	8–75 U/L	8–75 U/L
AMYL	300–1300 U/L	300–1300 U/L
AST	0–50 U/L	0–50 U/L
BUN/UREA	7–29 mg/dL	2.5–10.4 mmol/L
Ca	7.8–12.6 mg/dL	1.95–3.15 mmol/L
CHOL	100–400 mg/dL	2.58–10.34 mmol/L
CK	99–436 U/L	99–436 U/L
CREA	0.3–1.2 mg/dL	27–106 $\mu$ mol/L
CRP	0.0–1.0 mg/dL	0.0–10.0 mg/L
FRU	177–314 $\mu$ mol/L	177–314 $\mu$ mol/L
GGT	0–2 U/L	0–2 U/L
GLOB	2.3–3.8 g/dL	23–38 g/L
GLU	77–150 mg/dL	4.28–8.33 mmol/L
LAC	0.50–2.50 mmol/L	0.50–2.50 mmol/L
LDH	0–273 U/L	0–273 U/L
LIPA	100–1500 U/L	100–1500 U/L
Mg	1.20–2.04 mg/dL	0.50–0.85 mmol/L
NH <sub>3</sub>	0–99 $\mu$ mol/L	0–99 $\mu$ mol/L
PHOS	5.1–10.4 mg/dL	1.65–3.35 mmol/L
SDMA	0–16 $\mu$ g/dL	0–16 $\mu$ g/dL
TBIL	0.0–0.8 mg/dL	0–14 $\mu$ mol/L
TP	4.8–7.2 g/dL	48–72 g/L
TRIG	0–33 mg/dL	0.00–0.37 mmol/L
TT <sub>4</sub>	1.0–4.0 $\mu$ g/dL	13.0–51.0 nmol/L
URIC	0.0–1.0 mg/dL	0–60 mmol/L
Na <sup>+</sup>	145–157 mmol/L	145–157 mmol/L
K <sup>+</sup>	3.5–5.5 mmol/L	3.5–5.5 mmol/L
Cl <sup>-</sup>	105–119 mmol/L	105–119 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

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Chemistries	Canine—Adult	
	U.S. Units	S.I. Units
ALB	2.3–4.0 g/dL	23–40 g/L
ALKP	23–212 U/L	23–212 U/L
ALT	10–125 U/L	10–125 U/L
AMYL	500–1500 U/L	500–1500 U/L
AST	0–50 U/L	0–50 U/L
BUN/UREA	7–27 mg/dL	2.5–9.6 mmol/L
Ca	7.9–12.0 mg/dL	1.98–3.00 mmol/L
CHOL	110–320 mg/dL	2.84–8.27 mmol/L
CK	10–200 U/L	10–200 U/L
CREA	0.5–1.8 mg/dL	44–159 $\mu$ mol/L
CRP	0.0–1.0 mg/dL	0.0–10.0 mg/L
FRU	177–314 $\mu$ mol/L	177–314 $\mu$ mol/L
GGT	0–11 U/L	0–11 U/L
GLOB	2.5–4.5 g/dL	25–45 g/L
GLU	74–143 mg/dL	4.11–7.94 mmol/L
LAC	0.50–2.50 mmol/L	0.50–2.50 mmol/L
LDH	40–400 U/L	40–400 U/L
LIPA	200–1800 U/L	200–1800 U/L
Mg	1.40–2.38 mg/dL	0.58–0.99 mmol/L
NH <sub>3</sub>	0–98 $\mu$ mol/L	0–98 $\mu$ mol/L
PHOS	2.5–6.8 mg/dL	0.81–2.19 mmol/L
SDMA	0–14 $\mu$ g/dL	0–14 $\mu$ g/dL
TBIL	0.0–0.9 mg/dL	0–15 $\mu$ mol/L
TP	5.2–8.2 g/dL	52–82 g/L
TRIG	10–100 mg/dL	0.11–1.13 mmol/L
TT <sub>4</sub>	1.0–4.0 $\mu$ g/dL	13.0–51.0 nmol/L
URIC	0.0–1.0 mg/dL	0–60 mmol/L
Na <sup>+</sup>	144–160 mmol/L	144–160 mmol/L
K <sup>+</sup>	3.5–5.8 mmol/L	3.5–5.8 mmol/L
Cl <sup>-</sup>	109–122 mmol/L	109–122 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Canine—Geriatric	
	U.S. Units	S.I. Units
ALB	2.2–3.9 g/dL	22–39 g/L
ALKP	23–212 U/L	23–212 U/L
ALT	10–125 U/L	10–125 U/L
AMYL	500–1500 U/L	500–1500 U/L
AST	0–50 U/L	0–50 U/L
BUN/UREA	7–27 mg/dL	2.5–9.6 mmol/L
Ca	7.9–12.0 mg/dL	1.98–3.00 mmol/L
CHOL	110–320 mg/dL	2.84–8.27 mmol/L
CK	10–200 U/L	10–200 U/L
CREA	0.5–1.8 mg/dL	44–159 $\mu$ mol/L
CRP	0.0–1.0 mg/dL	0.0–10.0 mg/L
FRU	177–314 $\mu$ mol/L	177–314 $\mu$ mol/L
GGT	0–11 U/L	0–11 U/L
GLOB	2.5–4.5 g/dL	25–45 g/L
GLU	70–143 mg/dL	3.89–7.94 mmol/L
LAC	0.50–2.50 mmol/L	0.50–2.50 mmol/L
LDH	40–400 U/L	40–400 U/L
LIPA	200–1800 U/L	200–1800 U/L
Mg	1.40–2.38 mg/dL	0.58–0.99 mmol/L
NH <sub>3</sub>	0–98 $\mu$ mol/L	0–98 $\mu$ mol/L
PHOS	2.5–6.8 mg/dL	0.81–2.19 mmol/L
SDMA	0–14 $\mu$ g/dL	0–14 $\mu$ g/dL
TBIL	0.0–0.9 mg/dL	0–15 $\mu$ mol/L
TP	5.2–8.2 g/dL	52–82 g/L
TRIG	10–100 mg/dL	0.11–1.13 mmol/L
TT <sub>4</sub>	1.0–4.0 $\mu$ g/dL	13.0–51.0 nmol/L
URIC	0.0–1.0 mg/dL	0–60 mmol/L
Na <sup>+</sup>	144–160 mmol/L	144–160 mmol/L
K <sup>+</sup>	3.5–5.8 mmol/L	3.5–5.8 mmol/L
Cl <sup>-</sup>	109–122 mmol/L	109–122 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

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Chemistries	Feline—Kitten	
	U.S. Units	S.I. Units
ALB	2.2–3.9 g/dL	22–39 g/L
ALKP	14–192 U/L	14–192 U/L
ALT	12–115 U/L	12–115 U/L
AMYL	500–1400 U/L	500–1400 U/L
AST	0–32 U/L	0–32 U/L
BUN/UREA	16–33 mg/dL	5.7–11.8 mmol/L
Ca	7.9–11.3 mg/dL	1.98–2.83 mmol/L
CHOL	62–191 mg/dL	1.60–4.94 mmol/L
CK	0–394 U/L	0–394 U/L
CREA	0.6–1.6 mg/dL	53–141 $\mu$ mol/L
FRU	191–349 $\mu$ mol/L	191–349 $\mu$ mol/L
GGT	0–1 U/L	0–1 U/L
GLOB	2.8–4.8 g/dL	28–48 g/L
GLU	77–153 mg/dL	4.28–8.50 mmol/L
LAC	0.60–2.50 mmol/L	0.60–2.50 mmol/L
LDH	0–1128 U/L	0–1128 U/L
LIPA	40–500 U/L	40–500 U/L
Mg	1.62–2.23 mg/dL	0.68–0.93 mmol/L
NH <sub>3</sub>	0–95 $\mu$ mol/L	0–95 $\mu$ mol/L
PHOS	4.5–10.4 mg/dL	1.45–3.35 mmol/L
SDMA	0–14 $\mu$ g/dL	0–14 $\mu$ g/dL
TBIL	0.0–0.9 mg/dL	0–15 $\mu$ mol/L
TP	5.2–8.2 g/dL	52–82 g/L
TRIG	8–54 mg/dL	0.09–0.61 mmol/L
TT <sub>4</sub>	0.8–4.7 $\mu$ g/dL	10.0–60.0 nmol/L
URIC	0.0–1.0 mg/dL	0–60 mmol/L
Na <sup>+</sup>	150–165 mmol/L	150–165 mmol/L
K <sup>+</sup>	3.7–5.9 mmol/L	3.7–5.9 mmol/L
Cl <sup>-</sup>	115–126 mmol/L	115–126 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Feline—Adult	
	U.S. Units	S.I. Units
ALB	2.2–4.0 g/dL	22–40 g/L
ALKP	14–111 U/L	14–111 U/L
ALT	12–130 U/L	12–130 U/L
AMYL	500–1500 U/L	500–1500 U/L
AST	0–48 U/L	0–48 U/L
BUN/UREA	16–36 mg/dL	5.7–12.9 mmol/L
Ca	7.8–11.3 mg/dL	1.95–2.83 mmol/L
CHOL	65–225 mg/dL	1.68–5.81 mmol/L
CK	0–314 U/L	0–314 U/L
CREA	0.8–2.4 mg/dL	71–212 $\mu$ mol/L
FRU	191–349 $\mu$ mol/L	191–349 $\mu$ mol/L
GGT	0–4 U/L	0–4 U/L
GLOB	2.8–5.1 g/dL	28–51 g/L
GLU	74–159 mg/dL	4.11–8.83 mmol/L
LAC	0.60–2.50 mmol/L	0.60–2.50 mmol/L
LDH	0–798 U/L	0–798 U/L
LIPA	100–1400 U/L	100–1400 U/L
Mg	1.50–3.00 mg/dL	0.63–1.25 mmol/L
NH <sub>3</sub>	0–95 $\mu$ mol/L	0–95 $\mu$ mol/L
PHOS	3.1–7.5 mg/dL	1.00–2.42 mmol/L
SDMA	0–14 $\mu$ g/dL	0–14 $\mu$ g/dL
TBIL	0.0–0.9 mg/dL	0–15 $\mu$ mol/L
TP	5.7–8.9 g/dL	57–89 g/L
TRIG	10–100 mg/dL	0.11–1.13 mmol/L
TT <sub>4</sub>	0.8–4.7 $\mu$ g/dL	10.0–60.0 nmol/L
URIC	0.0–1.0 mg/dL	0–60 mmol/L
Na <sup>+</sup>	150–165 mmol/L	150–165 mmol/L
K <sup>+</sup>	3.5–5.8 mmol/L	3.5–5.8 mmol/L
Cl <sup>-</sup>	112–129 mmol/L	112–129 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Feline—Geriatric	
	U.S. Units	S.I. Units
ALB	2.3–3.9 g/dL	23–39 g/L
ALKP	14–111 U/L	14–111 U/L
ALT	12–130 U/L	12–130 U/L
AMYL	500–1500 U/L	500–1500 U/L
AST	0–48 U/L	0–48 U/L
BUN/UREA	16–36 mg/dL	5.7–12.9 mmol/L
Ca	7.8–11.3 mg/dL	1.95–2.83 mmol/L
CHOL	65–225 mg/dL	1.68–5.81 mmol/L
CK	0–314 U/L	0–314 U/L
CREA	0.8–2.4 mg/dL	71–212 $\mu$ mol/L
FRU	191–349 $\mu$ mol/L	191–349 $\mu$ mol/L
GGT	0–4 U/L	0–4 U/L
GLOB	2.8–5.1 g/dL	28–51 g/L
GLU	71–159 mg/dL	3.94–8.83 mmol/L
LAC	0.60–2.50 mmol/L	0.60–2.50 mmol/L
LDH	0–798 U/L	0–798 U/L
LIPA	100–1400 U/L	100–1400 U/L
Mg	1.50–3.00 mg/dL	0.63–1.25 mmol/L
NH <sub>3</sub>	0–95 $\mu$ mol/L	0–95 $\mu$ mol/L
PHOS	3.1–7.5 mg/dL	1.00–2.42 mmol/L
SDMA	0–14 $\mu$ g/dL	0–14 $\mu$ g/dL
TBIL	0.0–0.9 mg/dL	0–15 $\mu$ mol/L
TP	5.7–8.9 g/dL	57–89 g/L
TRIG	10–100 mg/dL	0.11–1.13 mmol/L
URIC	0.0–1.0 mg/dL	0–60 mmol/L
TT <sub>4</sub>	0.8–4.7 $\mu$ g/dL	10.0–60.0 nmol/L
Na <sup>+</sup>	150–165 mmol/L	150–165 mmol/L
K <sup>+</sup>	3.5–5.8 mmol/L	3.5–5.8 mmol/L
Cl <sup>-</sup>	112–129 mmol/L	112–129 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

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Chemistries	Equine—Foal	
	U.S. Units	S.I. Units
ALB	3.0–4.0 g/dL	30–40 g/L
ALKP	505–4667 U/L	505–4667 U/L
ALT	0–14 U/L	0–14 U/L
AMYL	0–10 U/L	0–10 U/L
AST	0–228 U/L	0–228 U/L
BUN/UREA	6–27 mg/dL	2.0–9.6 mmol/L
Ca	9.4–11.8 mg/dL	2.34–2.96 mmol/L
CHOL	78–458 mg/dL	2.02–11.83 mmol/L
CK	21–473 U/L	21–473 U/L
CREA	0.9–1.7 mg/dL	75–150 $\mu$ mol/L
GGT	0–71 U/L	0–71 U/L
GLOB	1.8–3.6 g/dL	1.8–3.6 g/L
GLU	109–268 mg/dL	6.05–14.88 mmol/L
LAC	0.50–1.78 mmol/L	0.50–1.78 mmol/L
LDH	0–1830 U/L	0–1830 U/L
LIPA	200–1300 U/L	200–1300 U/L
Mg	1.39–2.88 mg/dL	0.58–1.20 mmol/L
NH <sub>3</sub>	0–90 $\mu$ mol/L	0–90 $\mu$ mol/L
PHOS	4.0–7.1 mg/dL	1.29–2.29 mmol/L
TBIL	0.0–4.1 mg/dL	0–69 $\mu$ mol/L
TP	4.7–7.2 g/dL	47–72 g/L
TRIG	4–166 mg/dL	0.05–1.87 mmol/L
Na <sup>+</sup>	132–146 mmol/L	132–146 mmol/L
K <sup>+</sup>	2.4–4.7 mmol/L	2.4–4.7 mmol/L
Cl <sup>-</sup>	97–108 mmol/L	97–108 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

	<b>Equine—Yearling</b>	
<b>Chemistries</b>	<b>U.S. Units</b>	<b>S.I. Units</b>
ALB	3.8–4.7 g/dL	38–47 g/L
ALKP	10–469 U/L	10–469 U/L
ALT	5–30 U/L	5–30 U/L
AMYL	0–9 U/L	0–9 U/L
AST	0–317 U/L	0–317 U/L
BUN/UREA	11–22 mg/dL	4.1–8.0 mmol/L
Ca	9.9–12.4 mg/dL	2.48–3.11 mmol/L
CHOL	53–113 mg/dL	1.37–2.92 mmol/L
CK	0–354 U/L	0–354 U/L
CREA	0.4–1.8 mg/dL	35–157 $\mu$ mol/L
GGT	0–50 U/L	0–50 U/L
GLOB	2.4–4.0 g/dL	24–40 g/L
GLU	58–167 mg/dL	3.21–9.29 mmol/L
LAC	0.50–1.78 mmol/L	0.50–1.78 mmol/L
LDH	0–1337 U/L	0–1337 U/L
LIPA	400–1000 U/L	400–1000 U/L
Mg	1.55–2.09 mg/dL	0.65–0.87 mmol/L
NH <sub>3</sub>	0–90 $\mu$ mol/L	0–90 $\mu$ mol/L
PHOS	4.4–6.3 mg/dL	1.41–2.03 mmol/L
TBIL	0.0–2.5 mg/dL	0–42 $\mu$ mol/L
TP	5.2–8.5 g/dL	52–85 g/L
TRIG	19–52 mg/dL	0.21–0.59 mmol/L
Na <sup>+</sup>	132–146 mmol/L	132–146 mmol/L
K <sup>+</sup>	2.4–4.7 mmol/L	2.4–4.7 mmol/L
Cl <sup>-</sup>	97–108 mmol/L	97–108 mmol/L



# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

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Equine—Adult		
Chemistries	U.S. Units	S.I. Units
ALB	1.9–3.2 g/dL	19–32 g/L
ALKP	10–326 U/L	10–326 U/L
ALT	5–50 U/L	5–50 U/L
AMYL	0–35 U/L	0–35 U/L
AST	100–600 U/L	100–600 U/L
BUN/UREA	10–25 mg/dL	3.6–8.9 mmol/L
Ca	10.4–12.9 mg/dL	2.60–3.23 mmol/L
CHOL	50–110 mg/dL	1.29–2.84 mmol/L
CK	10–350 U/L	10–350 U/L
CREA	0.8–2.2 mg/dL	71–194 $\mu$ mol/L
GGT	0–87 U/L	0–87 U/L
GLOB	2.4–4.7 g/dL	24–47 g/L
GLU	64–150 mg/dL	3.56–8.33 mmol/L
LAC	0.50–1.78 mmol/L	0.50–1.78 mmol/L
LDH	250–2070 U/L	250–2070 U/L
LIPA	400–1000 U/L	400–1000 U/L
Mg	1.70–2.43 mg/dL	0.71–1.01 mmol/L
NH <sub>3</sub>	0–90 $\mu$ mol/L	0–90 $\mu$ mol/L
PHOS	1.8–5.6 mg/dL	0.58–1.81 mmol/L
TBIL	0.0–3.5 mg/dL	0–60 $\mu$ mol/L
TP	5.6–7.9 g/dL	56–79 g/L
TRIG	11–68 mg/dL	0.13–0.76 mmol/L
Na <sup>+</sup>	133–150 mmol/L	133–150 mmol/L
K <sup>+</sup>	3.0–5.3 mmol/L	3.0–5.3 mmol/L
Cl <sup>-</sup>	97–109 mmol/L	97–109 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Equine—Brood Mare	
	U.S. Units	S.I. Units
ALB	4.0–4.9 g/dL	40–49 g/L
ALKP	10–565 U/L	10–565 U/L
ALT	0–20 U/L	0–20 U/L
AMYL	0–8 U/L	0–8 U/L
AST	0–333 U/L	0–333 U/L
BUN/UREA	11–29 mg/dL	3.9–10.2 mmol/L
Ca	10.0–12.6 mg/dL	2.50–3.15 mmol/L
CHOL	50–96 mg/dL	1.28–2.48 mmol/L
CK	0–504 U/L	0–504 U/L
CREA	0.6–1.7 mg/dL	56–149 $\mu$ mol/L
GGT	0–68 U/L	0–68 U/L
GLOB	3.0–4.7 g/dL	30–47 g/L
GLU	46–137 mg/dL	2.53–7.59 mmol/L
LAC	0.50–1.78 mmol/L	0.50–1.78 mmol/L
LDH	0–1909 U/L	0–1909 U/L
LIPA	400–1000 U/L	400–1000 U/L
Mg	1.38–3.02 mg/dL	0.58–1.26 mmol/L
NH <sub>3</sub>	0–90 $\mu$ mol/L	0–90 $\mu$ mol/L
PHOS	3.1–11.2 mg/dL	1.00–3.61 mmol/L
TBIL	0.0–2.1 mg/dL	0–36 $\mu$ mol/L
TP	5.0–9.0 g/dL	50–90 g/L
TRIG	6–80 mg/dL	0.07–0.90 mmol/L
Na <sup>+</sup>	132–146 mmol/L	132–146 mmol/L
K <sup>+</sup>	2.4–4.7 mmol/L	2.4–4.7 mmol/L
Cl <sup>-</sup>	97–108 mmol/L	97–108 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Amazon Blue Parrot†	
	U.S. Units	S.I. Units
ALB	0.7–1.7 g/dL	7–17 g/L
ALKP	15–109 U/L	15–109 U/L
ALT	0–19 U/L	0–19 U/L
AMYL	402–882 U/L	402–882 U/L
AST	73–160 U/L	73–160 U/L
BUN/UREA	1–3 mg/dL	0.2–1.1 mmol/L
Ca	8.1–11.3 mg/dL	2.03–2.83 mmol/L
CHOL	210–471 mg/dL	5.43–12.17 mmol/L
CK	97–450 U/L	97–450 U/L
CREA	0.0–0.1 mg/dL	0–9 μmol/L
GGT	1–12 U/L	1–12 U/L
GLU	232–296 mg/dL	12.87–16.46 mmol/L
LDH	178–395 U/L	178–395 U/L
LIPA	85–204 U/L	85–204 U/L
Mg	3.19–3.84 mg/dL	1.33–1.60 mmol/L
NH <sub>3</sub>	166–585 μmol/L	166–585 μmol/L
PHOS	2.0–4.0 mg/dL	0.65–1.30 mmol/L
TP	3.7–5.0 g/dL	37–50 g/L
TRIG	102–264 mg/dL	1.15–2.98 mmol/L
URIC	1.3–5.7 mg/dL	77–339 mmol/L
Na <sup>+</sup>	139–155 mmol/L	139–155 mmol/L
K <sup>+</sup>	1.7–4.2 mmol/L	1.7–4.2 mmol/L
Cl <sup>-</sup>	108–124 mmol/L	108–124 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Amazon Yellow Parrot†	
	U.S. Units	S.I. Units
ALB	0.7–1.3 g/dL	7–13 g/L
ALKP	31–198 U/L	31–198 U/L
ALT	0–7 U/L	0–7 U/L
AMYL	264–798 U/L	264–798 U/L
AST	67–151 U/L	67–151 U/L
BUN/UREA	1–3 mg/dL	0.2–1.0 mmol/L
Ca	7.7–10.5 mg/dL	1.94–2.63 mmol/L
CHOL	140–317 mg/dL	3.63–8.18 mmol/L
CK	98–646 U/L	98–646 U/L
CREA	0.0–0.1 mg/dL	0–10 $\mu$ mol/L
GGT	2–19 U/L	2–19 U/L
GLU	220–295 mg/dL	12.22–16.40 mmol/L
LDH	160–427 U/L	160–427 U/L
LIPA	75–276 U/L	75–276 U/L
Mg	2.26–3.74 mg/dL	0.94–1.56 mmol/L
NH <sub>3</sub>	138–444 $\mu$ mol/L	138–444 $\mu$ mol/L
PHOS	1.1–3.3 mg/dL	0.34–1.06 mmol/L
TBIL	0.0–0.1 mg/dL	0–2 $\mu$ mol/L
TP	3.4–4.6 g/dL	34–46 g/L
TRIG	91–215 mg/dL	1.03–2.43 mmol/L
URIC	0.6–6.1 mg/dL	36–363 mmol/L
Na <sup>+</sup>	139–155 mmol/L	139–155 mmol/L
K <sup>+</sup>	1.7–4.2 mmol/L	1.7–4.2 mmol/L
Cl <sup>-</sup>	108–124 mmol/L	108–124 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	African Grey Parrot†	
	U.S. Units	S.I. Units
ALB	0.8–4.9 g/dL	8–49 g/L
ALKP	24–94 U/L	24–94 U/L
ALT	2–21 U/L	2–21 U/L
AMYL	211–519 U/L	211–519 U/L
AST	28–200 U/L	28–200 U/L
BUN/UREA	1–124 mg/dL	0.2–44.3 mmol/L
Ca	7.0–9.5 mg/dL	1.75–2.38 mmol/L
CHOL	217–330 mg/dL	5.61–8.53 mmol/L
CK	71–408 U/L	71–408 U/L
CREA	0.1–0.4 mg/dL	9–35 $\mu$ mol/L
GGT	0–900 U/L	0–900 U/L
GLOB	2.1–3.2 g/dL	21–32 g/L
GLU	224–308 mg/dL	12.45–17.11 mmol/L
LDH	105–420 U/L	105–420 U/L
LIPA	0–1250 U/L	0–1250 U/L
Mg	0.00–3.84 mg/dL	0.00–1.60 mmol/L
NH <sub>3</sub>	0–809 $\mu$ mol/L	0–809 $\mu$ mol/L
PHOS	1.0–5.2 mg/dL	0.32–1.68 mmol/L
TBIL	0.0–26.8 mg/dL	0–458 $\mu$ mol/L
TP	2.6–4.9 g/dL	26–49 g/L
TRIG	51–140 mg/dL	0.58–1.58 mmol/L
URIC	3.1–7.0 mg/dL	184–417 mmol/L
Na <sup>+</sup>	139–155 mmol/L	139–155 mmol/L
K <sup>+</sup>	1.7–4.2 mmol/L	1.7–4.2 mmol/L
Cl <sup>-</sup>	108–124 mmol/L	108–124 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Beef Cattle	
	U.S. Units	S.I. Units
ALB	2.5–3.6 g/dL	25–36 g/L
ALKP	10–149 U/L	10–149 U/L
AMYL	0–28 U/L	0–28 U/L
AST	0–91 U/L	0–91 U/L
BUN/UREA	7–17 mg/dL	2.5–6.1 mmol/L
Ca	7.8–10.5 mg/dL	1.95–2.62 mmol/L
CHOL	76–227 mg/dL	1.96–5.86 mmol/L
CK	0–110 U/L	0–110 U/L
CREA	0.0–2.0 mg/dL	0–172 $\mu$ mol/L
GGT	0–80 U/L	0–80 U/L
GLOB	2.7–3.8 g/dL	27–38 g/L
GLU	46–93 mg/dL	2.56–5.18 mmol/L
LIPA	30–400 U/L	30–400 U/L
Mg	1.26–2.40 mg/dL	0.53–1.00 mmol/L
NH <sub>3</sub>	0–90 $\mu$ mol/L	0–90 $\mu$ mol/L
PHOS	4.3–7.9 mg/dL	1.38–2.55 mmol/L
TBIL	0.0–0.7 mg/dL	0–12 $\mu$ mol/L
TP	5.8–8.0 g/dL	58–80 g/L
TRIG	0–8 mg/dL	0.00–0.09 mmol/L
Na <sup>+</sup>	132–152 mmol/L	132–152 mmol/L
K <sup>+</sup>	3.9–5.8 mmol/L	3.9–5.8 mmol/L
Cl <sup>-</sup>	97–111 mmol/L	97–111 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

	<b>Dairy Cow</b>	
<b>Chemistries</b>	<b>U.S. Units</b>	<b>S.I. Units</b>
ALB	2.5–3.5 g/dL	25–35 g/L
ALKP	28–233 U/L	28–233 U/L
AMYL	0–34 U/L	0–34 U/L
AST	50–150 U/L	50–150 U/L
BUN/UREA	10–25 mg/dL	3.6–9.0 mmol/L
Ca	8.0–12.0 mg/dL	2.00–3.00 mmol/L
CHOL	45–200 mg/dL	1.16–5.17 mmol/L
CK	50–350 U/L	50–350 U/L
CREA	0.5–1.6 mg/dL	44–141 $\mu$ mol/L
GGT	0–87 U/L	0–87 U/L
GLOB	3.0–4.9 g/dL	30–49 g/L
GLU	56–88 mg/dL	3.11–4.89 mmol/L
LIPA	30–200 U/L	30–200 U/L
Mg	1.80–3.00 mg/dL	0.75–1.25 mmol/L
NH <sub>3</sub>	0–90 $\mu$ mol/L	0–90 $\mu$ mol/L
PHOS	4.0–8.6 mg/dL	1.29–2.77 mmol/L
TBIL	0.0–0.7 mg/dL	0–12 $\mu$ mol/L
TP	6.2–8.0 g/dL	62–80 g/L
TRIG	0–8 mg/dL	0.00–0.10 mmol/L
Na <sup>+</sup>	138–155 mmol/L	138–155 mmol/L
K <sup>+</sup>	3.9–6.4 mmol/L	3.9–6.4 mmol/L
Cl <sup>-</sup>	96–116 mmol/L	96–116 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Budgerigar†	
	U.S. Units	S.I. Units
ALB	0.6–2.6 g/dL	6–26 g/L
ALKP	10–300 U/L	10–300 U/L
ALT	4–98 U/L	4–98 U/L
AMYL	250–2000 U/L	250–2000 U/L
AST	30–400 U/L	30–400 U/L
BUN/UREA	0–12 mg/dL	0.1–4.3 mmol/L
Ca	4.5–12.5 mg/dL	1.13–3.13 mmol/L
CHOL	19–300 mg/dL	0.49–7.75 mmol/L
CK	50–2000 U/L	50–2000 U/L
CREA	0.1–0.7 mg/dL	9–62 $\mu$ mol/L
GLOB	2.0–3.5 g/dL	20–35 g/L
GLU	100–400 mg/dL	5.56–22.22 mmol/L
LDH	80–900 U/L	80–900 U/L
PHOS	1.9–4.9 mg/dL	0.61–1.58 mmol/L
TBIL	0.0–0.7 mg/dL	0–12 $\mu$ mol/L
TP	2.2–5.7 g/dL	22–57 g/L
URIC	2.0–11.2 mg/dL	119–666 mmol/L

†Reference ranges are provisional.



# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Canary <sup>†</sup>	
	U.S. Units	S.I. Units
ALB	0.8–4.9 g/dL	8–49 g/L
ALKP	0–3000 U/L	0–3000 U/L
ALT	0–668 U/L	0–668 U/L
AMYL	0–2500 U/L	0–2500 U/L
AST	150–350 U/L	150–350 U/L
BUN/UREA	1–124 mg/dL	0.2–44.3 mmol/L
Ca	2.9–15.1 mg/dL	0.73–3.78 mmol/L
CHOL	5–485 mg/dL	0.13–12.53 mmol/L
CK	0–2015 U/L	0–2015 U/L
CREA	0.1–0.4 mg/dL	9–35 $\mu$ mol/L
GGT	0–900 U/L	0–900 U/L
GLOB	2.1–3.2 g/dL	21–32 g/L
GLU	200–450 mg/dL	11.11–25.00 mmol/L
LDH	0–686 U/L	0–686 U/L
LIPA	0–1250 U/L	0–1250 U/L
Mg	0.00–3.84 mg/dL	0.00–1.60 mmol/L
NH <sub>3</sub>	0–809 $\mu$ mol/L	0–809 $\mu$ mol/L
PHOS	0.4–13.8 mg/dL	0.13–4.45 mmol/L
TBIL	0.0–26.8 mg/dL	0–458 $\mu$ mol/L
TP	3.0–5.0 g/dL	30–50 g/L
TRIG	0–375 mg/dL	0.00–4.23 mmol/L
URIC	4.0–12.0 mg/dL	238–714 mmol/L

<sup>†</sup>Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Moluccan Cockatoo <sup>†</sup>	
	U.S. Units	S.I. Units
ALB	1.0–2.9 g/dL	10–29 g/L
ALKP	40–160 U/L	40–160 U/L
ALT	0–8 U/L	0–8 U/L
AMYL	414–972 U/L	414–972 U/L
AST	53–140 U/L	53–140 U/L
BUN/UREA	1–4 mg/dL	0.2–1.4 mmol/L
Ca	7.5–12.2 mg/dL	1.87–3.04 mmol/L
CHOL	131–338 mg/dL	3.39–8.73 mmol/L
CK	60–606 U/L	60–606 U/L
CREA	0.1–0.6 mg/dL	9–50 $\mu$ mol/L
GGT	0–1 U/L	0–1 U/L
GLU	189–261 mg/dL	10.48–14.52 mmol/L
LDH	518–1785 U/L	518–1785 U/L
LIPA	60–147 U/L	60–147 U/L
Mg	1.70–3.46 mg/dL	0.71–1.44 mmol/L
NH <sub>3</sub>	69–271 $\mu$ mol/L	69–271 $\mu$ mol/L
PHOS	1.7–5.0 mg/dL	0.55–1.60 mmol/L
TBIL	0.0–0.2 mg/dL	0–4 $\mu$ mol/L
TP	3.6–5.5 g/dL	36–55 g/L
TRIG	105–294 mg/dL	1.19–3.32 mmol/L
URIC	2.6–12.8 mg/dL	155–762 mmol/L

<sup>†</sup>Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Cockatiel†	
	U.S. Units	S.I. Units
ALB	0.8–4.9 g/dL	8–49 g/L
ALKP	0–3000 U/L	0–3000 U/L
ALT	0–668 U/L	0–668 U/L
AMYL	0–2500 U/L	0–2500 U/L
AST	100–350 U/L	100–350 U/L
BUN/UREA	1–124 mg/dL	0.2–44.3 mmol/L
Ca	8.5–13.0 mg/dL	2.13–3.25 mmol/L
CHOL	5–485 mg/dL	0.13–12.53 mmol/L
CK	100–300 U/L	100–300 U/L
CREA	0.1–0.4 mg/dL	9–35 $\mu$ mol/L
GGT	0–900 U/L	0–900 U/L
GLOB	2.1–3.2 g/dL	21–32 g/L
GLU	200–450 mg/dL	11.11–25.00 mmol/L
LDH	125–450 U/L	125–450 U/L
LIPA	0–1250 U/L	0–1250 U/L
Mg	0.00–3.84 mg/dL	0.00–1.60 mmol/L
NH <sub>3</sub>	0–809 $\mu$ mol/L	0–809 $\mu$ mol/L
PHOS	0.4–13.8 mg/dL	0.13–4.45 mmol/L
TBIL	0.0–26.8 mg/dL	0–458 $\mu$ mol/L
TP	2.2–5.0 g/dL	22–50 g/L
TRIG	0–375 mg/dL	0.00–4.23 mmol/L
URIC	3.5–11.0 mg/dL	208–655 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Conure <sup>†</sup>	
	U.S. Units	S.I. Units
ALB	0.8–4.9 g/dL	8–49 g/L
ALKP	0–3000 U/L	0–3000 U/L
ALT	0–668 U/L	0–668 U/L
AMYL	0–2500 U/L	0–2500 U/L
AST	125–350 U/L	125–350 U/L
BUN/UREA	1–124 mg/dL	0.2–44.3 mmol/L
Ca	8.0–15.0 mg/dL	2.00–3.75 mmol/L
CHOL	5–485 mg/dL	0.13–12.53 mmol/L
CK	100–300 U/L	100–300 U/L
CREA	0.1–0.5 mg/dL	9–44 $\mu$ mol/L
GGT	0–900 U/L	0–900 U/L
GLOB	2.1–3.2 g/dL	21–32 g/L
GLU	200–350 mg/dL	11.11–19.45 mmol/L
LDH	125–420 U/L	125–420 U/L
LIPA	0–1250 U/L	0–1250 U/L
Mg	0.00–3.84 mg/dL	0.00–1.60 mmol/L
NH <sub>3</sub>	0–809 $\mu$ mol/L	0–809 $\mu$ mol/L
PHOS	0.4–13.8 mg/dL	0.13–4.45 mmol/L
TBIL	0.0–26.8 mg/dL	0–458 $\mu$ mol/L
TP	2.5–4.5 g/dL	25–45 g/L
TRIG	0–375 mg/dL	0.00–4.23 mmol/L
URIC	2.5–10.5 mg/dL	149–625 mmol/L

<sup>†</sup>Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

<b>Umbrella Cockatoo†</b>		
<b>Chemistries</b>	<b>U.S. Units</b>	<b>S.I. Units</b>
ALB	0.9–2.7 g/dL	9–27 g/L
ALKP	30–204 U/L	30–204 U/L
ALT	2–14 U/L	2–14 U/L
AMYL	424–759 U/L	424–759 U/L
AST	84–143 U/L	84–143 U/L
BUN/UREA	1–4 mg/dL	0.2–1.4 mmol/L
Ca	8.3–11.1 mg/dL	2.08–2.78 mmol/L
CHOL	112–370 mg/dL	2.90–9.57 mmol/L
CK	112–559 U/L	112–559 U/L
CREA	0.1–0.2 mg/dL	9–21 $\mu$ mol/L
GGT	0–3 U/L	0–3 U/L
GLU	193–277 mg/dL	10.70–15.39 mmol/L
LDH	445–1143 U/L	445–1143 U/L
LIPA	75–192 U/L	75–192 U/L
Mg	1.77–3.10 mg/dL	0.74–1.29 mmol/L
NH <sub>3</sub>	103–318 $\mu$ mol/L	103–318 $\mu$ mol/L
PHOS	2.6–5.3 mg/dL	0.83–1.70 mmol/L
TBIL	0.0–0.3 mg/dL	0–5 $\mu$ mol/L
TP	3.8–5.5 g/dL	38–55 g/L
TRIG	191–375 mg/dL	2.169–4.23 mmol/L
URIC	3.4–11.7 mg/dL	202–696 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Ferret†	
	U.S. Units	S.I. Units
ALB	2.6–3.8 g/dL	26–38 g/L
ALKP	9–84 U/L	9–84 U/L
ALT	82–289 U/L	82–289 U/L
AST	28–120 U/L	28–120 U/L
BUN/UREA	10–45 mg/dL	3.6–16.1 mmol/L
Ca	8.0–11.8 mg/dL	2.00–2.95 mmol/L
CHOL	64–296 mg/dL	1.65–7.65 mmol/L
CREA	0.4–0.9 mg/dL	35–80 $\mu$ mol/L
GLOB	1.8–3.1 g/dL	18–31 g/L
GLU	94–207 mg/dL	5.22–11.50 mmol/L
LDH	221–618 U/L	221–618 U/L
PHOS	4.8–8.9 mg/dL	1.55–2.87 mmol/L
TBIL	0.1–1.0 mg/dL	2–17 $\mu$ mol/L
TP	5.2–7.3 g/dL	52–73 g/L
Na <sup>+</sup>	139–169 mmol/L	139–169 mmol/L
K <sup>+</sup>	4.6–7.6 mmol/L	4.6–7.6 mmol/L
Cl <sup>-</sup>	106–125 mmol/L	106–125 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Goat†	
	U.S. Units	S.I. Units
ALB	2.8–3.8 g/dL	28–38 g/L
ALKP	75–228 U/L	75–228 U/L
ALT	23–44 U/L	23–44 U/L
AMYL	1–30 U/L	1–30 U/L
AST	122–321 U/L	122–321 U/L
BUN/UREA	10–21 mg/dL	3.6–7.5 mmol/L
Ca	8.2–9.8 mg/dL	2.05–2.45 mmol/L
CHOL	63–108 mg/dL	1.63–2.79 mmol/L
CK	28–130 U/L	28–130 U/L
CREA	0.6–1.4 mg/dL	53–124 $\mu$ mol/L
GGT	60–101 U/L	60–101 U/L
GLU	54–93 mg/dL	3.00–5.17 mmol/L
LDH	811–1250 U/L	811–1250 U/L
PHOS	4.2–7.6 mg/dL	1.35–2.45 mmol/L
TBIL	0.1–0.4 mg/dL	1–6 $\mu$ mol/L
TP	6.4–7.8 g/dL	64–78 g/L
TRIG	10–29 mg/dL	0.11–0.33 mmol/L
Na <sup>+</sup>	145–157 mmol/L	145–157 mmol/L
K <sup>+</sup>	3.7–5.4 mmol/L	3.7–5.4 mmol/L
Cl <sup>-</sup>	104–110 mmol/L	104–110 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Grey-cheeked Parakeet†	
	U.S. Units	S.I. Units
ALB	0.8–4.9 g/dL	8–49 g/L
ALKP	0–3000 U/L	0–3000 U/L
ALT	0–668 U/L	0–668 U/L
AMYL	0–2500 U/L	0–2500 U/L
AST	150–400 U/L	150–400 U/L
BUN/UREA	1–124 mg/dL	0.2–44.3 mmol/L
Ca	2.9–15.1 mg/dL	0.73–3.78 mmol/L
CHOL	5–485 mg/dL	0.13–12.53 mmol/L
CK	100–300 U/L	100–300 U/L
CREA	0.1–0.4 mg/dL	9–35 $\mu$ mol/L
GGT	0–900 U/L	0–900 U/L
GLOB	2.1–3.2 g/dL	21–32 g/L
GLU	200–350 mg/dL	11.11–19.45 mmol/L
LDH	150–450 U/L	150–450 U/L
LIPA	0–1250 U/L	0–1250 U/L
Mg	0.00–3.84 mg/dL	0.0–1.6 mmol/L
NH <sub>3</sub>	0–809 $\mu$ mol/L	0–809 $\mu$ mol/L
PHOS	0.4–13.8 mg/dL	0.13–4.45 mmol/L
TBIL	0.0–26.8 mg/dL	0–458 $\mu$ mol/L
TP	2.5–4.5 g/dL	25–45 g/L
TRIG	0–375 mg/dL	0.00–4.23 mmol/L
URIC	4.0–12.0 mg/dL	238–714 mmol/L

†Reference ranges are provisional.



# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Lizard†	
	U.S. Units	S.I. Units
ALKP	60–99 U/L	60–99 U/L
AST	5–105 U/L	5–105 U/L
BUN/UREA	1–12 mg/dL	0.4–4.3 mmol/L
Ca	7.6–10.0 mg/dL	1.90–2.50 mmol/L
CHOL	46–140 mg/dL	1.19–3.62 mmol/L
CREA	0.1–0.2 mg/dL	5–13 $\mu$ mol/L
GGT	1–10 U/L	1–10 U/L
GLU	54–198 mg/dL	3.00–11.00 mmol/L
LDH	250–1000 U/L	250–1000 U/L
PHOS	1.9–5.1 mg/dL	0.61–1.65 mmol/L
TP	3.0–8.1 g/dL	30–81 g/L
TRIG	53–106 mg/dL	0.60–1.20 mmol/L
URIC	2.7–8.0 mg/dL	161–476 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Llama	
	U.S. Units	S.I. Units
ALB	1.7–3.7 g/dL	17–37 g/L
ALKP	30–95 U/L	30–95 U/L
ALT	10–29 U/L	10–29 U/L
AMYL	175–1242 U/L	175–1242 U/L
AST	81–559 U/L	81–559 U/L
BUN/UREA	3–36 mg/dL	1.0–12.7 mmol/L
Ca	7.0–11.0 mg/dL	1.75–2.75 mmol/L
CHOL	7–88 mg/dL	0.18–2.27 mmol/L
CK	11–153 U/L	11–153 U/L
CREA	0.8–1.9 mg/dL	71–168 $\mu$ mol/L
GGT	9–70 U/L	9–70 U/L
GLOB	2.2–4.5 g/dL	22–45 g/L
GLU	85–236 mg/dL	4.72–13.11 mmol/L
LDH	343–1348 U/L	343–1348 U/L
Mg	1.40–2.90 mg/dL	0.58–1.21 mmol/L
PHOS	1.0–11.0 mg/dL	0.32–3.55 mmol/L
TBIL	0.1–0.2 mg/dL	2–3 $\mu$ mol/L
TP	3.9–7.5 g/dL	39–75 g/L
Na <sup>+</sup>	147–159 mmol/L	147–159 mmol/L
K <sup>+</sup>	4.3–5.3 mmol/L	4.3–5.3 mmol/L
Cl <sup>-</sup>	112–119 mmol/L	112–119 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Blue and Gold Macaw†	
	U.S. Units	S.I. Units
ALB	0.4–1.9 g/dL	4–19 g/L
ALKP	27–205 U/L	27–205 U/L
ALT	0–11 U/L	0–11 U/L
AMYL	295–506 U/L	295–506 U/L
AST	17–126 U/L	17–126 U/L
BUN/UREA	1–6 mg/dL	0.2–2.2 mmol/L
Ca	7.2–12.6 mg/dL	1.81–3.16 mmol/L
CHOL	83–193 mg/dL	2.13–4.99 mmol/L
CK	62–393 U/L	62–393 U/L
CREA	0.1–0.2 mg/dL	9–15 $\mu$ mol/L
GGT	0–1 U/L	0–1 U/L
GLU	227–310 mg/dL	12.63–17.22 mmol/L
LDH	174–649 U/L	174–649 U/L
LIPA	142–657 U/L	142–657 U/L
Mg	2.04–3.84 mg/dL	0.85–1.60 mmol/L
NH <sub>3</sub>	93–452 $\mu$ mol/L	93–452 $\mu$ mol/L
PHOS	1.6–6.8 mg/dL	0.50–2.20 mmol/L
TBIL	0.0–1.0 mg/dL	0–17 $\mu$ mol/L
TP	3.7–5.2 g/dL	37–52 g/L
TRIG	86–288 mg/dL	0.97–3.25 mmol/L
URIC	0.7–13.8 mg/dL	42–821 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Blue Hyacinth Macaw†	
	U.S. Units	S.I. Units
ALB	1.4–2.0 g/dL	14–20 g/L
ALKP	3–84 U/L	3–84 U/L
ALT	3–8 U/L	3–8 U/L
AMYL	283–595 U/L	283–595 U/L
AST	68–122 U/L	68–122 U/L
BUN/UREA	2–7 mg/dL	0.8–2.6 mmol/L
Ca	7.5–10.1 mg/dL	1.88–2.54 mmol/L
CHOL	70–158 mg/dL	1.80–4.09 mmol/L
CK	284–871 U/L	284–871 U/L
CREA	0.1–0.3 mg/dL	9–26 $\mu$ mol/L
GGT	0–1 U/L	0–1 U/L
GLU	215–275 mg/dL	11.96–15.28 mmol/L
LDH	221–626 U/L	221–626 U/L
LIPA	272–833 U/L	272–833 U/L
Mg	1.33–2.80 mg/dL	0.55–1.17 mmol/L
NH <sub>3</sub>	82–234 $\mu$ mol/L	82–234 $\mu$ mol/L
PHOS	1.6–4.9 mg/dL	0.51–1.57 mmol/L
TBIL	0.0–0.2 mg/dL	0–4 $\mu$ mol/L
TP	3.9–4.6 g/dL	39–46 g/L
TRIG	84–201 mg/dL	0.95–2.27 mmol/L
URIC	3.5–19.9 mg/dL	208–1184 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Monkey <sup>†</sup>	
	U.S. Units	S.I. Units
ALB	2.8–4.4 g/dL	28–44 g/L
ALKP	73–210 U/L	73–210 U/L
ALT	20–120 U/L	20–120 U/L
AMYL	149–500 U/L	149–500 U/L
AST	23–94 U/L	23–94 U/L
BUN/UREA	7–25 mg/dL	2.5–8.9 mmol/L
Ca	8.3–10.1 mg/dL	2.08–2.53 mmol/L
CHOL	73–179 mg/dL	1.89–4.63 mmol/L
CK	63–460 U/L	63–460 U/L
CREA	0.4–1.2 mg/dL	35–106 $\mu$ mol/L
GGT	40–78 U/L	40–78 U/L
GLU	50–100 mg/dL	2.78–5.56 mmol/L
LDH	578–1800 U/L	578–1800 U/L
PHOS	2.4–6.5 mg/dL	0.77–2.10 mmol/L
TBIL	0.1–0.6 mg/dL	2–10 $\mu$ mol/L
TP	5.9–7.6 g/dL	59–76 g/L
TRIG	31–153 mg/dL	0.35–1.73 mmol/L
Na <sup>+</sup>	139–158 mmol/L	139–158 mmol/L
K <sup>+</sup>	2.7–4.6 mmol/L	2.7–4.6 mmol/L
Cl <sup>-</sup>	98–111 mmol/L	98–111 mmol/L

<sup>†</sup>Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Mouse†	
	U.S. Units	S.I. Units
ALB	2.5–4.8 g/dL	25–48 g/L
ALKP	62–209 U/L	62–209 U/L
ALT	28–132 U/L	28–132 U/L
AMYL	1691–3615 U/L	1691–3615 U/L
AST	59–247 U/L	59–247 U/L
BUN/UREA	18–29 mg/dL	6.4–10.4 mmol/L
Ca	5.9–9.4 mg/dL	1.48–2.35 mmol/L
CHOL	36–96 mg/dL	0.93–2.48 mmol/L
CK	68–1070 U/L	68–1070 U/L
CREA	0.2–0.8 mg/dL	18–71 $\mu$ mol/L
GLU	90–192 mg/dL	5.00–10.67 mmol/L
LDH	1105–3993 U/L	1105–3993 U/L
PHOS	6.1–10.1 mg/dL	1.97–3.26 mmol/L
TBIL	0.1–0.9 mg/dL	2–15 $\mu$ mol/L
TP	3.6–6.6 g/dL	36–66 g/L
TRIG	55–144 mg/dL	0.62–1.63 mmol/L
URIC	1.7–5.4 mg/dL	101–321 mmol/L
Na <sup>+</sup>	126–182 mmol/L	126–182 mmol/L
K <sup>+</sup>	4.7–6.4 mmol/L	4.7–6.4 mmol/L
Cl <sup>-</sup>	92–120 mmol/L	92–120 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

	<b>Scarlet Macaw†</b>	
<b>Chemistries</b>	<b>U.S. Units</b>	<b>S.I. Units</b>
ALB	0.6–2.1 g/dL	6–21 g/L
ALKP	9–74 U/L	9–74 U/L
ALT	0–7 U/L	0–7 U/L
AMYL	217–710 U/L	217–710 U/L
AST	32–95 U/L	32–95 U/L
BUN/UREA	2–10 mg/dL	0.6–3.4 mmol/L
Ca	8.1–10.7 mg/dL	2.01–2.68 mmol/L
CHOL	108–319 mg/dL	2.78–8.25 mmol/L
CK	76–406 U/L	76–406 U/L
CREA	0.10–0.13 mg/dL	9–11 $\mu$ mol/L
GGT	0–1 U/L	0–1 U/L
GLU	206–292 mg/dL	11.42–16.25 mmol/L
LDH	157–684 U/L	157–684 U/L
LIPA	176–483 U/L	176–483 U/L
Mg	1.48–3.22 mg/dL	0.62–1.34 mmol/L
NH <sub>3</sub>	66–349 $\mu$ mol/L	66–349 $\mu$ mol/L
PHOS	1.5–5.2 mg/dL	0.49–1.68 mmol/L
TBIL	0.0–0.3 mg/dL	0–5 $\mu$ mol/L
TP	3.8–5.1 g/dL	38–51 g/L
TRIG	83–266 mg/dL	0.94–3.01 mmol/L
URIC	1.7–8.0 mg/dL	101–476 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Eclectus Parrot†	
	U.S. Units	S.I. Units
ALB	0.6–1.7 g/dL	6–17 g/L
ALKP	97–668 U/L	97–668 U/L
ALT	0–17 U/L	0–17 U/L
AMYL	425–981 U/L	425–981 U/L
AST	19–159 U/L	19–159 U/L
BUN/UREA	1–3 mg/dL	0.2–0.9 mmol/L
Ca	8.0–11.9 mg/dL	2.00–2.97 mmol/L
CHOL	183–339 mg/dL	4.73–8.76 mmol/L
CK	144–418 U/L	144–418 U/L
CREA	0.1–0.2 mg/dL	9–14 $\mu$ mol/L
GGT	0–1 U/L	0–1 U/L
GLU	233–392 mg/dL	12.95–21.79 mmol/L
LDH	277–957 U/L	277–957 U/L
LIPA	28–52 U/L	28–52 U/L
Mg	1.81–3.08 mg/dL	0.75–1.28 mmol/L
NH <sub>3</sub>	89–262 $\mu$ mol/L	89–262 $\mu$ mol/L
PHOS	2.3–5.2 mg/dL	0.75–1.69 mmol/L
TBIL	0.0–0.1 mg/dL	0–2 $\mu$ mol/L
TP	3.5–5.0 g/dL	35–50 g/L
TRIG	70–304 mg/dL	0.78–3.43 mmol/L
URIC	2.4–8.8 mg/dL	143–524 mmol/L

†Reference ranges are provisional.



# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Pig†	
	U.S. Units	S.I. Units
ALB	1.8–3.3 g/dL	18–33 g/L
ALKP	92–294 U/L	92–294 U/L
ALT	9–43 U/L	9–43 U/L
AMYL	271–1198 U/L	271–1198 U/L
AST	16–65 U/L	16–65 U/L
BUN/UREA	6–30 mg/dL	2.1–10.7 mmol/L
Ca	6.5–11.4 mg/dL	1.63–2.85 mmol/L
CHOL	18–79 mg/dL	0.47–2.04 mmol/L
CK	50–3531 U/L	50–3531 U/L
CREA	0.5–2.1 mg/dL	44–186 $\mu$ mol/L
GGT	16–30 U/L	16–30 U/L
GLU	85–160 mg/dL	4.72–8.89 mmol/L
LDH	575–3294 U/L	575–3294 U/L
LIPA	10–44 U/L	10–44 U/L
PHOS	3.6–9.2 mg/dL	1.16–2.97 mmol/L
TBIL	0.1–0.3 mg/dL	2–5 $\mu$ mol/L
TP	6.0–8.0 g/dL	60–80 g/L
TRIG	41–83 mg/dL	0.46–0.94 mmol/L
Na <sup>+</sup>	143–157 mmol/L	143–157 mmol/L
K <sup>+</sup>	2.2–7.7 mmol/L	2.2–7.7 mmol/L
Cl <sup>-</sup>	100–109 mmol/L	100–109 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Rabbit <sup>†</sup>	
	U.S. Units	S.I. Units
ALB	2.7–4.6 g/dL	27–46 g/L
ALKP	70–145 U/L	70–145 U/L
ALT	31–53 U/L	31–53 U/L
AST	42–98 U/L	42–98 U/L
BUN/UREA	10–24 mg/dL	3.6–8.6 mmol/L
Ca	5.6–12.0 mg/dL	1.40–3.00 mmol/L
CHOL	35–53 mg/dL	0.90–1.37 mmol/L
CREA	0.8–1.8 mg/dL	71–159 $\mu$ mol/L
GLOB	1.5–2.8 g/dL	15–28 g/L
GLU	75–145 mg/dL	4.17–8.06 mmol/L
PHOS	1.2–4.9 mg/dL	0.39–1.58 mmol/L
TBIL	0.3–0.8 mg/dL	5–14 $\mu$ mol/L
TP	5.5–7.2 g/dL	55–72 g/L
TRIG	124–156 mg/dL	1.40–1.76 mmol/L
Na <sup>+</sup>	140–156 mmol/L	140–156 mmol/L
K <sup>+</sup>	3.4–7.5 mmol/L	3.4–7.5 mmol/L
Cl <sup>-</sup>	92–112 mmol/L	92–112 mmol/L

<sup>†</sup>Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Rat†	
	U.S. Units	S.I. Units
ALB	3.8–4.8 g/dL	38–48 g/L
ALKP	16–302 U/L	16–302 U/L
ALT	20–61 U/L	20–61 U/L
AMYL	326–2246 U/L	326–2246 U/L
AST	39–111 U/L	39–111 U/L
BUN/UREA	9–21 mg/dL	3.2–7.5 mmol/L
Ca	5.3–11.6 mg/dL	1.33–2.90 mmol/L
CHOL	20–92 mg/dL	0.52–2.38 mmol/L
CK	48–340 U/L	48–340 U/L
CREA	0.1–0.7 mg/dL	4–57 $\mu$ mol/L
GGT	1–6 U/L	1–6 U/L
GLOB	1.5–2.8 g/dL	15–28 g/L
GLU	50–135 mg/dL	2.78–7.50 mmol/L
LDH	167–1428 U/L	167–1428 U/L
LIPA	10–150 U/L	10–150 U/L
PHOS	5.8–11.2 mg/dL	1.87–3.61 mmol/L
TBIL	0.1–0.7 mg/dL	2–12 $\mu$ mol/L
TP	5.3–6.9 g/dL	53–69 g/L
TRIG	26–108 mg/dL	0.29–1.22 mmol/L
URIC	0.8–4.4 mg/dL	48–262 mmol/L
Na <sup>+</sup>	137–154 mmol/L	137–154 mmol/L
K <sup>+</sup>	4.1–6.5 mmol/L	4.1–6.5 mmol/L
Cl <sup>-</sup>	96–107 mmol/L	96–107 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Sea Turtle	
	U.S. Units	S.I. Units
ALB	1.0–2.5 g/dL	10–25 g/L
ALKP	24–48 U/L	24–48 U/L
AST	66–315 U/L	66–315 U/L
BUN/UREA	35–110 mg/dL	12.5–39.3 mmol/L
Ca	5.0–14.0 mg/dL	1.25–3.50 mmol/L
CHOL	150–445 mg/dL	3.88–11.50 mmol/L
CREA	0.1–0.3 mg/dL	9–25 $\mu$ mol/L
GLOB	2.6–4.5 g/dL	26–45 g/L
GLU	72–125 mg/dL	4.00–6.95 mmol/L
LDH	100–800 U/L	100–800 U/L
Mg	6.70–9.40 mg/dL	2.79–3.92 mmol/L
PHOS	5.5–9.5 mg/dL	1.77–3.06 mmol/L
TP	3.6–6.8 g/dL	36–68 g/L
TRIG	15–260 mg/dL	0.17–2.94 mmol/L
URIC	0.3–1.8 mg/dL	15–107 mmol/L

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Sheep†	
	U.S. Units	S.I. Units
ALB	2.4–3.7 g/dL	24–37 g/L
ALKP	50–228 U/L	50–228 U/L
ALT	5–17 U/L	5–17 U/L
AMYL	1–30 U/L	1–30 U/L
AST	40–96 U/L	40–96 U/L
BUN/UREA	5–20 mg/dL	1.8–7.1 mmol/L
Ca	9.1–10.8 mg/dL	2.28–2.70 mmol/L
CHOL	44–82 mg/dL	1.14–2.12 mmol/L
CK	8–100 U/L	8–100 U/L
CREA	0.6–1.5 mg/dL	53–133 $\mu$ mol/L
GGT	33–55 U/L	33–55 U/L
GLOB	3.2–4.1 g/dL	32–41 g/L
GLU	50–80 mg/dL	2.78–4.44 mmol/L
LDH	504–1049 U/L	504–1049 U/L
LIPA	1–71 U/L	1–71 U/L
Mg	2.30–3.00 mg/dL	0.96–1.25 mmol/L
PHOS	4.0–8.9 mg/dL	1.29–2.87 mmol/L
TBIL	0.1–0.4 mg/dL	2–7 $\mu$ mol/L
TP	5.6–7.8 g/dL	56–78 g/L
TRIG	9–30 mg/dL	0.10–0.34 mmol/L
Na <sup>+</sup>	143–159 mmol/L	143–159 mmol/L
K <sup>+</sup>	4.2–6.4 mmol/L	4.2–6.4 mmol/L
Cl <sup>-</sup>	100–113 mmol/L	100–113 mmol/L

†Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Snake <sup>†</sup>	
	U.S. Units	S.I. Units
ALKP	80–145 U/L	80–145 U/L
ALT	10–260 U/L	10–260 U/L
AST	5–35 U/L	5–35 U/L
BUN/UREA	1–11 mg/dL	0.4–3.9 mmol/L
Ca	10.0–22.0 mg/dL	2.50–5.50 mmol/L
CHOL	50–139 mg/dL	1.29–3.59 mmol/L
CREA	0.1–0.5 mg/dL	9–44 $\mu$ mol/L
GGT	1–15 U/L	1–15 U/L
GLU	10–108 mg/dL	0.56–6.00 mmol/L
LDH	30–600 U/L	30–600 U/L
PHOS	2.8–5.7 mg/dL	0.90–1.84 mmol/L
TP	2.9–8.0 g/dL	29–80 g/L
TRIG	53–177 mg/dL	0.60–2.00 mmol/L
URIC	1.0–10.0 mg/dL	60–595 mmol/L

<sup>†</sup>Reference ranges are provisional.

# Reference Ranges for the IDEXX **Catalyst**\* Chemistry Analyzer

**Note:** The reference ranges listed below are subject to change. The ranges that appear on your IDEXX VetLab\* Station integrated report always reflect the current reference ranges.

Chemistries	Tortoise†	
	U.S. Units	S.I. Units
ALB	1.3–3.0 g/dL	13–30 g/L
ALKP	36–156 U/L	36–156 U/L
AST	14–18 U/L	14–18 U/L
BUN/UREA	19–33 mg/dL	6.8–11.8 mmol/L
Ca	10.0–14.5 mg/dL	2.50–3.63 mmol/L
CREA	0.1–0.4 mg/dL	9–35 $\mu$ mol/L
GLOB	1.6–4.0 g/dL	16–40 g/L
PHOS	2.3–11.5 mg/dL	0.74–3.71 mmol/L
TBIL	0.1–0.6 mg/dL	2–10 $\mu$ mol/L
TP	3.0–7.0 g/dL	30–70 g/L
URIC	1.2–2.8 mg/dL	71–167 mmol/L
Na <sup>+</sup>	126–142 mmol/L	126–142 mmol/L
K <sup>+</sup>	3.7–5.2 mmol/L	3.7–5.2 mmol/L
Cl <sup>-</sup>	83–102 mmol/L	83–102 mmol/L

†Reference ranges are provisional.