

Reference Ranges for Analytes in Extravascular Body Fluids			
Analyte	Body Fluid	Reference Range	Reference
Amylase			
	Duodenal Fluid (after secretin stimulation)	130-3400 U/min	Heil
	Lymph	50-83 U/L	Valentine
	Pancreatic Juice (after stimulation)	400-1780 U/min	Heil
	Peritoneal Fluid	88-109 U/L	Hannon
Bilirubin			
	Amniotic Fluid	< 0.1 mg/dL	Campbell
	Bile (clear colorless fluid)	< 1.3 mg/dL	Tsunoda
	Yellow Bile	9-77 mg/dL	Tsunoda
	Coelomic Fluid	< 0.5 mg/dL	Campbell
CEA			
	Amniotic Fluid	< 107 µg/L	Drohse
	Ascites	< 2.5 µg/L (Nonmalignant) > 2.5 µg/L (Malignant)	Heil
	Gastric Juice	< 0.5 µg/L	Borch
Chloride			
	Amniotic Fluid	83-111 mmol/L	Campbell
	Bile (clear colorless fluid)	94-152 mmol/L	Tsunoda
	Yellow Bile	80-144 mmol/L	Tsunoda
	Coelomic Fluid	100-115 mmol/L	Campbell
	Gastric Juice	84-119 mmol/L (6-48 months) 57-137 mmol/L (Adults)	Adamson Heil

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Chloride	Lymph	85-130 mmol/L	Valentine	
	Milk, Human	10.9-14.6 mmol/L	Wack	
	Mixed Saliva	5-40 mmol/L	Haeckel	
	Sweat	41-102 mmol/L (6-15 yr. Female)	Al-Tamer	
		41-100 mmol/L (6-15 yr. Male)		
		71-96 mmol/L (16-25 yr. Female)		
		60-101 mmol/L (16-25 yr. Male)		
		75-100 mmol/L (26-35 yr. Female)		
		71-102 mmol/L (26-35 yr. Male)		
		71-102 mmol/L (36-45 yr. Female)		
		90-103 mmol/L (36-45 yr. Male)		
		75-108 mmol/L (46-55 yr. Female)		
	96-107 mmol/L (46-55 yr. Male)			
Tears	128 mmol/L	Haeckel		
Creatinine	Amniotic Fluid	0.2-0.7 mg/dL	Campbell	
	Coelomic Fluid	0.4-3.0 mg/dL	Campbell	
	Peritoneal Fluid	0.5-2.0 mg/dL	Manahan	
	Mixed Saliva	0.07-0.20 mg/dL	Lloyd	
	Glucose	Amniotic Fluid	45-76 mg/dL	Campbell
		Bile (clear colorless fluid)	< 5 mg/dL	Tsunoda
Yellow Bile		< 8 mg/dL	Tsunoda	
Coelomic Fluid		50-88 mg/dL	Campbell	
Lymph		48-200 mg/dL	Valentine	

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Glucose	Nasal Secretion	< 10 mg/dL	Kosoy	
	Pleural Fluid	Equal to Plasma	Boggs	
	Mixed Saliva	< 2 mg/dL	Rehak	
	Sweat	< 7 mg/dL	Heil	
	Synovial Fluid	Equal to Plasma	Heil	
	Tears	76-288 mg/dL	Jager	
	LDH	Ascites	< 60% of serum LDH (Nonmalignant) > 60% of serum LDH (Malignant)	Heil
		Gastric Juice	< 35 U/L	Rogers
		Pleural Fluid punctate/serum ratio	< 200 U/L (Transudate) > 200 U/L (Exudate) < 0.6 U/L (Transudate) > 0.6 U/L (Exudate)	Heil
		Mixed Saliva	113-609 U/L	Rehak
Synovial Fluid		< 240 U/L	Heil	
Lipase		Duodenal Fluid (after secretin stimulation)	950-7200 U/min	Heil
		Pancreatic Juice (after stimulation)	780-3500 U/min	Heil
Potassium	Amniotic Fluid	3.7-4.4 mmol/L	Campbell	
	Bile (clear colorless fluid)	3.0-6.6 mmol/L	Tsunoda	

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Potassium	Yellow Bile	3.8-5.4 mmol/L	Tsunoda
	Coelomic Fluid	3.5-4.2 mmol/L	Campbell
	Duodenal Fluid	4.2-11.0 mmol/L	Heil
	Gastric Juice	10.7-14.2 mmol/L (6-48 months) 5.0-11.8 mmol/L (Adults)	Adamson Heil
	Lymph	3.8-5.0 mmol/L	Valentine
	Milk, Human	10.6-13.0 mmol/L	Fly
	Nasal Secretion	6-28 mmol/L	Heil
	Pancreatic Juice	3-10 mmol/L	Heil
	Saliva	14-26 mmol/L	Heil
	Mixed Saliva	6.4-37 mmol/L	Rehak
	Sweat	10.7-13.6 mmol/L (6-15yr Female)	Al-Tamer
		11.4-23.2 mmol/L (6-15 yr. Male)	
		18.8-28.2 mmol/L(16-25yr Female)	
		13.5-40.0 mmol/L (16-25 yr. Male)	
		20.0-28.8 mmol/L(26-35yr Female)	
		22.0-43.6 mmol/L (26-35 yr. Male)	
		16.3-33.0 mmol/L(36-45yr Female)	
		28.2-44.8 mmol/L (36-45 yr. Male)	
		23.0-25.2 mmol/L(46-55yr Female)	
	32.8-40.0 mmol/L (46-55 yr. Male)		
Tears	16 mmol/L	Haeckel	
Sodium	Amniotic Fluid	139-144 mmol/L	Campbell
	Bile (clear colorless fluid)	138-162 mmol/L	Tsunoda
	Yellow Bile	144-170 mmol/L	Tsunoda

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Sodium	Coelomic Fluid	135-141 mmol/L	Campbell	
	Duodenal Fluid	97-153 mmol/L	Heil	
	Gastric Juice	60-69 mmol/L (6-48 months) 32-84 mmol/L (Adults)	Adamson Heil	
	Lymph	104-108 mmol/L	Valentine	
	Milk, Human	4.0-6.0 mmol/L	Fly	
	Nasal Secretion	90-148 mmol/L	Heil	
	Saliva	10-54 mmol/L	Heil	
	Mixed Saliva	2-21 mmol/L	Haeckel	
	Sweat	39-102 mmol/L (6-15 yr. Female) 44-105 mmol/L (6-15 yr. Male) 77-94 mmol/L(16-25 yr. Female) 62-113 mmol/L (16-25 yr. Male) 83-98 mmol/L(26-35 yr. Female) 75-119 mmol/L (26-35 yr. Male) 79-97 mmol/L(36-45 yr. Female) 75-136 mmol/L (36-45 yr. Male) 92-109 mmol/L(46-55 yr. Female) 65-146 mmol/L (46-55 yr. Male)	Al-Tamer	
	Tears	146 mmol/L	Haeckel	
	Urea	Amniotic Fluid	12-32 mg/dL	Campbell
		Coelomic Fluid	16-41 mg/dL	Campbell
		Gastric Juice	0.7-1.6 mg/dL	Piper
		Lymph	17-36 mg/dL	Valentine
		Peritoneal Fluid	3-27 mg/dL	Manahan

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Analyte	Body Fluid	Reference Range	Reference
Urea			
	Mixed Saliva	17-41 mg/dL	Rehak
	Sweat	56-234 mg/dL	Taylor
Uric Acid			
	Gastric Juice	0.7-1.4 mg/dL	Piper
	Mixed Saliva	0.7-6.0 mg/dL	Rehak
	Sweat	0.2-0.7 mg/dL	Taylor
	Synovial Fluid	Equal to Serum	Heil

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