

LABORATORY SERVICES PRICE BOOK

2024



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Analytical Testing

Turnaround Time in Business Days

Test Services (in Alphabetical Order)	Turnaround Time in Business Days						Notes	Min. Sample Qty	
	Standard		Rush		Super Rush (Call Prior to Sending)				
	Days	Price	Days	Price	Days	Price			
Acid Value USP <401>	10	\$690	7	\$1,380	4	\$2,070		100mL	
Angular Rotation USP <781A>	10	\$275	7	\$550	4	\$825		50mL	
Appearance	3	\$45	1	\$90	0	\$135	Color, clarity, and visible particulates	100mg	
Ash	10	\$210	7	\$420	4	\$630		2g	
Chloride and Sulfate USP <221>	10	\$140	7	\$280	4	\$420	Price is per each limit test.	See Quote	
Conductivity USP <644>	10	\$395	N/A		N/A			100mL	
Data Packet	3	\$100	1	\$200	0	\$300	Complete raw data set for a sample	N/A	
Density	3	\$75	1	\$150	0	\$225	If ordered with Osmolarity or Particulate Matter, turnaround time is based on the test with the longest turnaround time.		
Environmental Chamber Storage									
1-10 articles (<100mL per article)	30	\$110	N/A		N/A		The total fee will be calculated in 30 day periods with no prorating.	N/A	
11-50 articles (<100mL per article)	30	\$280	N/A		N/A				
> 50 articles (<100mL per article)	30	\$7	N/A		N/A		Price is per article. The total fee will be calculated in 30 day periods with no prorating.	N/A	
1-10 articles (≥100mL per article)	30	\$330	N/A		N/A		The total fee will be calculated in 30 day periods with no prorating.		
11-50 articles (≥100 mL per article)	30	\$551	N/A		N/A				
> 50 articles (≥100 mL per article)	30	\$15	N/A		N/A		Price is per article. The total fee will be calculated in 30 day periods with no prorating.	N/A	
Fatty Acid Composition USP <401>	10	\$1,375	7	\$2,750	4	\$4,125		20mL	
Hydroxyl Value USP <401>	10	\$965	7	\$1,930	4	\$2,895		2g	
Identification USP <191>	10	\$140	7	\$280	4	\$420	Price is per analyte.	See Quote	
Identification - IR USP <197>	10	\$180	7	\$360	4	\$540	Requires a Standard. May require additional tests. Contact ARL.	100mg	
Identification - IR USP <181>	10	\$550	7	\$1,100	4	\$1,650		See Quote	
Identification - Retention Time	10	\$50	7	\$100	4	\$150	The turnaround time (TAT) is the same as the method used to perform the analysis.	N/A Ran with Assay	
Identification - Ultraviolet Visible USP <197>	10	\$260	7	\$520	4	\$780	Requires a Standard. May require additional tests. Contact ARL.	50mg	
Iodine Value USP <401>	10	\$550	7	\$1,100	4	\$1,650		10g	
Iron USP <241>	10	\$350	7	\$700	4	\$1,050		3g	
Limit of Nonvolatile Residue	10	\$210	7	\$420	4	\$630		200mL	
Loss on Drying USP <731>	10	\$210	7	\$420	4	\$630		1500mg	
Loss on Ignition USP <733>	10	\$210	7	\$420	4	\$630		2g	
Melting Point USP <741>	10	\$180	7	\$360	4	\$540		100mg	
Melting Range or Temperature USP <741>	10	\$180	7	\$360	4	\$540		100mg	
Optical Rotation	10	\$275	7	\$550	4	\$825		See Quote	
Ordinary Impurities by USP <466>	10	\$550	7	\$1,100	4	\$1,650		200mg	



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Osmolality <785>	10	\$275	7	\$550	4	\$825	For aqueous products only.	2mL
Osmolarity <785>	10	\$350	7	\$700	4	\$1050	For aqueous products only. If 5+ ingredients, COA required for APIs. Formulation is required.	10mL
Particulate Matter								
USP <787> Therapeutic Proteins	5	\$385	3	\$770	2	1,155	Therapeutic proteins	1.5mL
USP <788> Method I	5	\$180	3	\$360	2	\$540	Parenterals, topical ophthalmics, or injections, except for therapeutic proteins	30mL if <25mL, (10 containers) If ≥25mL, (1 container)
USP <788> Method II	5	\$425	3	\$850	2	\$1,275	Parenterals, topical ophthalmics, or injections, except for therapeutic proteins	
USP <789> Method I Ophthalmic Solutions	5	\$180	3	\$360	2	\$540	Intraocular Ophthalmics	
USP <789> Method II Ophthalmic Solutions	5	\$425	3	\$850	2	\$1,275	Intraocular Ophthalmics	
Peroxide Value USP <401>	10	\$485	7	\$970	4	\$1,455		40mL
pH USP <791>	3	\$45	1	\$90	0	\$135		10mL
Potency Determination (non-cGMP)	View	View	View	View	View	View	Please notify ARL of rush and super rush samples prior to sending.	See Submission Guidelines
Fill Volume	3	\$45	1	\$90	0	\$135	Recommended for potency tests on IV bags where a commercial product is added to a pre-filled bag.	N/A Ran with Assay
Readily Carbonizable Substances USP <271>	10	\$415	7	\$830	4	\$1,245		See Quote
Refractive Index	10	\$210	7	\$420	4	\$630		5mL
Residual Solvents USP <467>	10	\$965	7	\$1,930	4	\$2,895	May require three separate tests (A, B, C). Additional solvents \$100 each. Test C includes up to 4 solvents.	800mg or 10mL
Residual Solvents (not listed in USP <467>)	Call for quote						May require validation prior to testing.	
Residue on Ignition USP <281>	10	\$350	7	\$700	4	\$1,050		2000mg
Saponification Value USP <401>	10	\$625	7	\$1,250	4	\$1,875		20g
Specific Gravity USP <841>	10	\$210	7	\$420	4	\$630		10mL
Specific Rotation USP <781S>	10	\$275	7	\$550	4	\$825	May require additional tests. Contact ARL.	See Quote
Sulphated Ash	10	\$350	7	\$700	4	\$1,050		2g
Test for Aflatoxins USP <561>	10	\$4,815	N/A		N/A			100g
Total Ash	10	\$415	7	\$830	4	\$1,245		10g
Total Organic Carbon	10	\$275	7	\$550	4	\$825	Purified or Bulk water only	40mL
Unsaponifiable Matter USP <401>	10	\$825	7	\$1,650	4	\$2,475		10g
USP <800> Swab Test (per swab)	10	\$200	N/A		N/A		Limited to one HD per swab.	N/A
Visual Inspection	3	\$45	1	\$90	0	\$135		
Water USP <921>	10	\$245	7	\$490	4	\$735	Pricing reflects cost for Method I a or b only. Call ARL for price and TAT for Method I c.	2g
Water Conductivity USP <645>	10	\$415	N/A		N/A			100mL

Additional Services Available: Please contact info@arlok.com, 800-393-1595, or [request a quote](#) for more information.

- BUD Studies and Stability Studies,**
- Method Development / Validation**
- Potency Determination (GMP)**
- Full Compendial Testing**

Effective 7/30/2024

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Microbiology Testing

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	Standard		Rush		Super Rush (Call Prior to Sending)					
	Days	Price	Days	Price	Days	Price				
Antimicrobial Effectiveness USP <51>	35	\$1,100	N/A		N/A		70mL or 70g for validation and test			
Antimicrobial Drugs	35	\$3,300	N/A		N/A					
Method Suitability	10	\$550	N/A		N/A					
Method Suitability (Antimicrobial Drugs)	10	\$1,650	N/A		N/A					
Biological Indicator Spore Count USP <55>	10	\$400	N/A		N/A					
Biological Indicator Incubation (Spore Strips)	10	\$85	N/A		N/A					
Biological Indicator Incubation (Ampoules)	10	\$60	N/A		N/A					
Biological Indicator Incubation (Dry Ampoules)	10	\$85	N/A		N/A					
Container Closure Integrity Test										
USP <1207> Vacuum Decay (1 - 11 containers)	5	\$525	3	\$1,050	N/A		Contact ARL to determine if your container closure system requires verification or validation.	1-11 containers		
USP <1207> Vacuum Decay (12 - 21 containers)	5	\$800	3	\$1,600	N/A					
USP <1207> Vacuum Decay (22 - 31 containers)	5	\$1,000	3	\$2,000	N/A					
USP <1207> Vacuum Decay Verification	15	\$525	N/A		N/A					
USP <1207> Vacuum Decay Validation (Vials)	15	\$1,750	N/A		N/A					
USP <1207> Vacuum Decay Validation (Syringes and IV Bags)	15	\$3,675	N/A		N/A					
Vacuum Decay (1 to 11 samples)	5	\$525	3	\$1,050	N/A					
Vacuum Decay (12 to 21 samples)	5	\$800	3	\$1,600	N/A					
Vacuum Decay (22 to 31 samples)	5	\$1,000	3	\$2,000	N/A		Non-validated test method	22-31 containers		
Data Packet	3	\$100	1	\$200	0	\$300				
Endotoxin USP <85>	3	\$105	1	\$210	0	\$315				
Pooling	3	\$45	1	\$90	0	\$135				
Method Validation	10	\$550	5	\$1100	3	\$1,650				
Endotoxin MBI-145	3	\$105	1	\$210	0	\$315				
Pooling	3	\$45	1	\$90	0	\$135				
Endotoxin USP <161> or MBI-145 (Medical Device)										
<1L of LAL reagent	5	\$280	3	\$560	1	\$840	Pricing adjustment may be required. Contact ARL prior to sending sample. Method Validation Required.			
1L to 2L	5	\$420	3	\$840	1	\$1,260	Pricing adjustment may be required. Contact ARL prior to sending sample. Method Validation Required.			
>2L to 3L	5	\$535	3	\$1,070	1	\$1,605	Pricing adjustment may be required. Contact ARL prior to sending sample. Method Validation Required.			
>3L to 5L	5	\$650	3	\$1,300	1	\$1,950	Pricing adjustment may be required. Contact ARL prior to sending sample. Method Validation Required.			
>5L	Call for quote		N/A		N/A		Pricing adjustment may be required. Contact ARL prior to sending sample. Method Validation Required.			



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	Standard		Rush		Super Rush			
	Days	Price	Days	Price	Days	Price		
Endotoxin Method Validation USP <161> or MBI-145 (Medical Device)								
<1L of LAL reagent	10	\$550	5	\$1,100	3	\$1,650	Pricing adjustment may be required. Contact ARL prior to sending sample.	1 article
1L to 2L	10	\$700	5	\$1,400	3	\$2,100	Pricing adjustment may be required. Contact ARL prior to sending sample.	
>2L to 3L	10	\$815	5	\$1,630	3	\$2,445	Pricing adjustment may be required. Contact ARL prior to sending sample.	
>3L to 5L	10	\$935	5	\$1,870	3	\$2,805	Pricing adjustment may be required. Contact ARL prior to sending sample.	
>5L	Call for quote		N/A		N/A		Pricing adjustment may be required. Contact ARL prior to sending sample.	
Fungal	14-18 Calendar Days	\$85	N/A		N/A		Testing begins on day of sample arrival if method suitability has been established.	1mL
Method Suitability	10	\$110	N/A		N/A			5mL or 5g
Method Suitability Library Verification	3	\$60	N/A		N/A		Requires formulation sheet with a formulation number.	N/A
Gram Stain	3	\$50	1	\$100	0	\$150	May require subculture and additional time.	
Growth Promotion (Contact ARL to request unlisted organisms)								
Aspergillus brasiliensis	10	\$70	7	\$140	N/A		Price is per organism per inoculation. Client instruction required.	If liquid media, 10mL per organism. If solid media, 1 plate per organism. Please include 1 additional plate or 10mL of media as a control.
Bacillus subtilis	10	\$70	7	\$140	N/A		Price is per organism per inoculation. Client instruction required.	
Candida albicans	10	\$70	7	\$140	N/A		Price is per organism per inoculation. Client instruction required.	
Clostridia sporogenes	10	\$70	7	\$140	N/A		Price is per organism per inoculation. Client instruction required.	
Escherichia coli	10	\$70	7	\$140	N/A		Price is per organism per inoculation. Client instruction required.	
Pseudomonas aeruginosa	10	\$70	7	\$140	N/A		Price is per organism per inoculation. Client instruction required.	
Salmonella enterica	10	\$70	7	\$140	N/A		Price is per organism per inoculation. Client instruction required.	
Staphylococcus aureus	10	\$70	7	\$140	N/A		Price is per organism per inoculation. Client instruction required.	
Pooling	10	\$70	7	\$140	N/A			
Media Fill (Incubation & Observation)								
Incubation & Observation (1 to 10 articles) (≤ 100 mL per article)	10-14	\$85	N/A		N/A		Liquids only. Client instruction required.	N/A
Incubation & Observation (11 to 50 articles) (≤ 100 mL per article)	10-14	\$240	N/A		N/A		Liquids only. Client instruction required.	
Incubation & Observation (51 to 100 articles) (≤ 100 mL per article)	10-14	\$400	N/A		N/A		Liquids only. Client instruction required.	
Incubation & Observation (> 100 articles) (≤ 100 mL per article)	10-14	\$5	N/A		N/A		Price is per article. Contact ARL prior to sending samples.	
Incubation & Observation (1 to 10 articles) (> 100 mL per article)	10-14	\$240	N/A		N/A		Liquids only. Client instruction required.	
Incubation & Observation (11 to 50 articles) (> 100 mL per article)	10-14	\$700	N/A		N/A		Liquids only. Client instruction required.	
Incubation & Observation (51 to 100 articles) (> 100 mL per article)	10-14	\$945	N/A		N/A		Liquids only. Client instruction required.	
Incubation & Observation (> 100 articles) (> 100 mL per article)	10-14	\$10	N/A		N/A		Price is per article. Contact ARL prior to sending samples.	
Incubation & Observation (1 to 10 Pellets)	10-14	\$80	N/A		N/A		Contact ARL if submitting more than 10 pellets for testing.	
Microbial Assay USP <81>	Call for quote		N/A		N/A			



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	Standard Days		Rush Days		Super Rush Days			
	Price	Price	Price	Price	Price	Price		
Microbial Enumeration Test USP <61>	7	\$275	6	\$550	5	\$825		12mL or 12g
Antimicrobial Active	7	\$550	6	\$1,100	5	\$1,650		
Method Suitability	10	\$275	7	\$550	N/A		Method Suitability can run concurrently with the test.	
Method Suitability (Antimicrobial Active)	10	\$1,420	7	\$2,840	N/A		Method Suitability can run concurrently with the test.	
Microbial Enumeration Test Dietary Supplements USP <2021>	7	\$275	6	\$550	5	\$825	Method Suitability is required	12mL or 12g
Aerobic Microbial Count Method Suitability	10	\$475	7	\$950	N/A			
Yeast and Mold Count Method Suitability	10	\$250	7	\$500	N/A			
Microbial Identification	10	\$130	5	\$260	3	\$390	Price is per organism. Additional fees apply when an isolation and subculture is required.	N/A
Isolation and Subculture	10	\$50	5	\$100	3	\$150	Price per organism. Additional time required for slow growing organisms.	
Mycoplasma								
1-10 samples	3	\$420	1	\$840	N/A		Price is per sample container. Feasibility Study and Method Validation required.	See Quote
11-100 samples	3	\$280	1	\$560	N/A		Price per sample container. Feasibility Study and Method Validation required.	
Feasibility Study	Call for quote		N/A		N/A			
Method Validation	Call for quote		N/A		N/A			
Plates (Incubation & Enumeration)	10	\$50	N/A		N/A		Price is per plate. Provides CFU count after incubation.	
Rapid Sterility	6 Calendar Days	\$290	N/A		N/A		Pricing is per certified sampling set. For certifications greater than 40, please call for quote.	2mL or certify per USP <71>
Antimicrobial Active	6 Calendar Days	\$405	N/A		N/A		Pricing is per certified sampling set. For certifications greater than 40, please call for quote.	
Metered Devices (predetermined dose sequence)	8 Calendar Days	\$405	N/A		N/A		Pricing is per certified sampling set. For certifications greater than 40, please call for quote.	
Method Suitability	10	\$1,295	N/A		N/A			4x certification amount
Method Suitability (Antimicrobial Active/Metered Devices)	10	\$2,000	N/A		N/A		Metered Device: predetermined dose sequence delivery systems	
Method Verification	5	\$800	N/A		N/A		Requires a formulation sheet with a formulation number.	1x certification amount
Method Suitability Library Verification	3	\$60	N/A		N/A		Requires a formulation sheet with a formulation number.	N/A
Additional Rapid Sterility Reads	N/A	\$105	N/A		N/A		ARL OOS investigation procedure requires duplicate reads of the media type under investigation.	
Sterility USP <71> (Closed Membrane Filtration if product is filterable)								
Sterility USP <71>	14-18 Calendar Days	\$180	N/A		N/A		Pricing is per certified sampling set. For certifications greater than 40, please call for quote.	See Table 3 USP <71>
Antimicrobial Active	14-18 Calendar Days	\$290	N/A		N/A		Pricing is per certified sampling set. For certifications greater than 40, please call for quote.	
Metered Devices (predetermined dose sequence)	16-20 Calendar Days	\$290	N/A		N/A		Pricing is per certified sampling set. For certifications greater than 40, please call for quote.	
Bulk Solids	Call for Quote		N/A		N/A			
Method Suitability	10	\$550	N/A		N/A			3x certification amount
Method Suitability (Antimicrobial Active/Metered Devices)	10	\$840	N/A		N/A		Metered Device: predetermined dose sequence delivery systems	
Method Suitability Library Verification	3	\$60	N/A		N/A		Requires a formulation sheet with a formulation number.	N/A
Sterility by MBI-144	USP <71> TAT and pricing applies.		N/A		N/A		Internal ARL method is cited if proper # of articles is not submitted and/or method suitability is absent.	2mL



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Sterility USP <71> (Direct Inoculation if product is non-filterable)										
≤8L of Media	14-18 Calendar Days	\$180	N/A	N/A			See Table 3 USP <71>	2mL or 2g		
>8L – 18L of Media	14-18 Calendar Days	\$350	N/A	N/A						
>18L – 39L of Media	14-18 Calendar Days	\$680	N/A	N/A						
>39L of Media	Call for Quote		N/A	N/A						
Tests for <i>Burkholderia cepacia</i> complex USP <60>										
Method Suitability	15	\$1,400	N/A	N/A			Method Suitability can run concurrently with the test. Price is per organism.	2mL or 2g		
Tests for <i>Burkholderia cepacia</i> complex (Antimicrobial Active)	10	\$550	N/A	N/A						
Method Suitability (Antimicrobial Active)	15	\$2,800	N/A	N/A						
Tests for Specified Microorganisms Dietary Supplements USP <2022>										
Method Suitability	15	\$280	10	\$280	N/A	Price per organism	Price per organism. If organisms grow during the test, organism(s) must be identified.	2mL or 2g		
Tests for Specified Microorganisms USP <62>										
<i>Candida albicans</i>	10	\$140	7	\$280	N/A	Price per organism				
<i>Clostridia sporogenes</i>	10	\$140	7	\$280	N/A	Price per organism				
<i>Escherichia coli</i>	10	\$140	7	\$280	N/A	Price per organism				
<i>Pseudomonas aeruginosa</i>	10	\$140	7	\$280	N/A	Price per organism				
<i>Salmonella enterica</i>	10	\$140	7	\$280	N/A	Price per organism				
<i>Staphylococcus aureus</i>	10	\$140	7	\$280	N/A	Price per organism				
Bile-Tolerant, Gram-Negative	10	\$140	7	\$280	N/A	Price per organism				
Tests for Specified Microorganisms (Antimicrobial Active)	10	\$280	7	\$560	N/A	Price per organism	See amounts above.	4mL or 4g		
Method Suitability	15	\$280	10	\$560	N/A	Price per organism				
Method Suitability (Antimicrobial Active)	15	\$390	10	\$780	N/A	Price per organism				
Water Activity	10	\$210	5	\$420	3	\$630	High concentration (typically >1%) of certain volatile compounds may not be compatible with this test.	7g		

Additional Services Available: Please contact info@arlok.com, 800-393-1595, or [request a quote](#) for more information.

- [Growth Promotion Organism Verification Test](#)
- [Microbial Disinfectant Cleaning Challenge Studies](#)
- [USP <81> - Antibiotics Microbial Assays](#)