

# BioReference Laboratories API Reference

v.1.1

## Authorization

BRL's REST API endpoints leverage OAuth 2.0 for authorization. Using the APIs requires an access token to be retrieved from the authorization token endpoint. In order to obtain an authorization token, the Client ID and Client Secret are submitted in a request payload into the authorization service.

### Authorization Token Endpoint

This is the destination URL where the request payload is submitted to receive an access token:

<https://authqa.bioreference.com/connect/token>

### Authorization Request

The following represents the parameters that need to be included in your request payload that gets submitted to the authorization service and should be sent as **x-www-form-urlencoded**.

```
grant_type: "client_credentials"  
client_id: "[YOUR CLIENT ID]"  
client_secret: "[YOUR CLIENT SECRET]"
```

### Authorization Response

A successful response example from a successful authorization request

```
{  
  "access_token": "eyJhbGciOiJSUzI1NiIsI.....",  
  "expires_in": 3600, '  
  "token_type": "Bearer",  
  "scope": "create:orders_all"  
}
```

All API requests must be made over HTTPS. Calls made over plain HTTP will fail. API requests without authentication will also fail.

The generated access token from the above response will need to be passed as a **Bearer** token in the **Authorization header** for each subsequent request to any API endpoint. For example:

```
"Authorization: Bearer eyJhbGciOiJSUzI1NiIsI.....etc...."
```

The access token expires after 60 minutes and will need to be refreshed. When the token expires, an HTTP 401 "Unauthorized" status/error code will be returned for any API request.

# Tests

Test information endpoints for searching the test compendium, retrieve test details, and ask on order entry questions (AOE's). Using the APIs requires an access token to be retrieved from the authorization token endpoint.

## Search for Tests

The endpoint allows you to search through our test compendium using test code, test name or CPT code. The parameters are not cumulative. If passing more than one parameter value only the first one will be used.

Request:

**GET** <https://api-qa.bioreference.com/tests/search?testCode}&testName}&cptCode}&searchScarlet}>

### Request Query Parameters:

Parameter	Required	Type	Description/Values
testCode	Yes – if testName and cptCode not used	String	Valid BioReference test code. Minimum one alphanumeric character
testName	Yes – if testCode and cptCode not used	String	Minimum one alphanumeric character
cptCode	Yes – if testName and testCode not used	String	Minimum one numeric character
searchScarlet	No	Boolean	Default value is false. Returns all tests that match the required parameter passed.  If set to true, will return only tests that are Scarlet eligible and match the required parameter passed.

Successful Response:

```
[{
  "TestName": "CBC w/o DIFF",
  "TestCode": "0034",
  "CPTCodes": [
    "85027"
  ]
},
{
  "TestName": "CBC WITH DIFF",
  "TestCode": "0053",
  "CPTCodes": [
    "85025"
  ]
}]
```

```

    },
    {
      "TestName": "CH24/HDL,CBC/D/PLT",
      "TestCode": "0855",
      "CPTCodes": [
        "83718",
        "85025",
        "G0059"
      ]
    }
  ]
]

```

## Test Details

The endpoint provides detailed information based on a valid BioReference test code. Information in the response includes test name, alternate name, primary and secondary specimen types, turnaround times, CPT codes, specimen collection instructions, clinical utility, methodology, department, LOINC, reference range, storage instructions, components (if a panel), Scarlet eligibility, and AOE's.

Request:

GET <https://api-qa.bioreference.com/tests/detail{?testCode}>

### Request Query Parameters:

Parameter	Required	Type	Description/Values
testCode	Yes	string	Valid BioReference test code.

Successful Response:

```

{
  "AlternateName": "",
  "FullName": "Novel Coronavirus COVID-19 Nasopharynx",
  "SpecimenTypes": [{
    "Division": "NJ1 - BRLI",
    "PrimaryType": "SV",
    "SecondaryTypes": [{
      "Type": "STAR"
    }]
  }],
  {
    "Division": "MD3 - GeneDx Clinical",
    "PrimaryType": "STAR",
    "SecondaryTypes": [{
      "Type": "SV"
    }]
  }
],
{

```

```

    "Division": "CA3 - Burbank CA Clinical"
    "PrimaryType": "STAR",
    "SecondaryTypes": [{
      "Type": "SV"
    }]
  }
],
"TAT": [{
  "DivisionId": "BRLI - NJ1",
  "TurnAroundTime": "3",
  "TATDaysOrHours": "D"
}],
"CPT": [{
  "CPTCode": "U0003",
  "Multiplier": 1
}],
"CollectionInstructions": "SV: Collect sample, place in holder, label with patient name. NOT TO BE USED FOR BACTERIAL TRANSPORT\r",
"ClinicalUtility": "For the detection of the novel COVID-19, Coronavirus.",
"Methodology": "Real-Time Polymerase Chain Reaction",
"Department": "Multiple Departments",
"LOINC": [{
  "Alt Code": "94500-6",
  "Description": "SARS-CoV-2 (COVID-19) RNA [Presence] in Respiratory specimen by NA A with probe detection"
}],
"ReferenceRange": [{
  "NumericRanges": [],
  "NonNumericRanges": [{
    "Flag": "",
    "ValueText": "Not Detected"
  },
  {
    "Flag": "*",
    "ValueText": "Positive for 2019-nCoV"
  },
  {
    "Flag": "*",
    "ValueText": "Presumptive Positive for 2019-nCoV"
  },
  {
    "Flag": "",
    "ValueText": "Inconclusive"
  },
  {
    "Flag": "",
    "ValueText": "Invalid"
  },
  {
    "Flag": "*",
    "ValueText": "Presumptive Pos. for 2019-nCoV"
  },
  {
    "Flag": "",
    "ValueText": "Alt. Test Performed"
  }
]

```

```

    }
  ]
}],
"StorageInstruction": "Refrigerated (3 day stability) or Frozen (30 day stability)",
"Components": [],
"Scarlet": {
  "ScarletEligibility": "Yes",
  "IsStateRestriction": false,
  "ScarletStateRestrictions": []
},
"AOE": [{
  "AOEQuestionCode": "C391",
  "AOEQuestionText": "What is the name of the school? ",
  "Type": "OrderSpecific",
  "AnswerRequired": false,
  "AnswerFormat": 1,
  "Exceptions": [{
    "StateName": "New York",
    "StateCode": "NY",
    "Counties": null
  }],
  "Answers": [],
  "Condition": "Never",
  "Sequence": 0
},
{
  "AOEQuestionCode": "C390",
  "AOEQuestionText": "Have you been physically present on school premises in the
past 7 days? ",
  "Type": "OrderSpecific",
  "AnswerRequired": false,
  "AnswerFormat": 4,
  "Exceptions": [{
    "StateName": "New York",
    "StateCode": "NY",
    "Counties": null
  }],
  "Answers": [{
    "AOEAnswerCode": "1",
    "AOEAnswerText": "YES",
    "HoldCode": "",
    "IsMessageOnSelection": false,
    "Message": ""
  },
  {
    "AOEAnswerCode": "2",
    "AOEAnswerText": "NO",
    "HoldCode": "",
    "IsMessageOnSelection": false,
    "Message": ""
  },
  {
    "AOEAnswerCode": "3",
    "AOEAnswerText": "Declined to Answer",
    "HoldCode": ""
  }
}

```

```

    "IsMessageOnSelection": false,
    "Message": ""
  },
  {
    "AOEAnswerCode": "4",
    "AOEAnswerText": "Preferred Not to Say",
    "HoldCode": "",
    "IsMessageOnSelection": false,
    "Message": ""
  }
],
"Condition": "Never",
"Sequence": 0
}
]
}

```

## Test Detail Response Body Reference

### Specimen Types Object Reference (“Specimen Types”)

Primary Type/Type Container Code	Description
24UA	Urine Tube 24 hour
24USC	Urine Cup 24 hour
ACD	ACD - Whole Blood
ACDNA	Ariosa Cell-Free DNA (White TopTube)
AGA	Agar Plate
ALC	50% Alcohol Jar
ALQA	Aliquot Plasma- ACD
ALQC	Aliquot Plasma-Citrated-Blue Top
ALQC1	Aliquot Plasma-Citrated-Blue Top
ALQC2	Aliquot Plasma-Citrated-Blue Top
ALQC3	Aliquot Plasma-Citrated-Blue Top
ALQC4	Aliquot Plasma-Citrated-Blue Top
ALQC5	Aliquot Plasma-Citrated-Blue Top
ALQC6	Aliquot Plasma-Citrated-Blue Top
ALQC7	Aliquot Plasma-Citrated-Blue Top
ALQC8	Aliquot Plasma-Citrated-Blue Top
ALQC9	Aliquot Plasma-Citrated-Blue Top
ALQD	Aliquot-DNA
ALQE	Aliquot Plasma-EDTA-Lavender Top
ALQE1	Aliquot Edta
ALQE2	Aliquot Edta
ALQE3	Aliquot Edta
ALQE4	Aliquot Edta

ALQE5	Aliquot Edta
ALQE6	Aliquot Edta
ALQE7	Aliquot Edta
ALQE8	Aliquot Edta
ALQE9	Aliquot Edta
ALQG	Aliquot Plasma-sodium Flouride-Grey
ALQH	Aliquot Plasma Heparinized-green top
ALQP	Aliquot Tube-Plasma
ALQRB	Aliquot Red Blood Cells
ALQRD	Aliquot Serum- Red Top
ALQRP	Aliquot Royal Blue Plasma
ALQRS	Aliquot Royal Blue Serum
ALQS	Aliquot Tube-Serum
ALQS1	Aliquot Serum 1
ALQS2	Aliquot Serum 2
ALQS3	Aliquot Serum 3
ALQS4	Aliquot Serum 4
ALQS5	Aliquot Serum 5
ALQS6	Aliquot Serum 6
ALQS7	Aliquot Serum 7
ALQS8	Aliquot Serum 8
ALQS9	Aliquot Serum 9
AMB24	Amber 24hr Urine
AMBE	Amber EDTA
AMBE	Amber EDTA
AMBER	Amber Pour off tube
AMBFL	Amber Fluid
AMBH	Amber Hepranized Plasma
AMBLA	Amber Lavender
AMBSE	Amber Serum
AMBST	Amber Stool
AMBUR	Amber Urine
AMF	Amniotic Fluid
APT	Swab-Aptima Genprobe
APTO	Swab Aptima Orange label
AQC10	Aliquot Plasma-Citrated-Blue Top
AQC11	Aliquot Plasma-Citrated-Blue Top
AQC12	Aliquot Plasma-Citrated-Blue Top
AQC13	Aliquot Plasma-Citrated-Blue Top
AQC14	Aliquot Plasma-Citrated-Blue Top
AQC15	Aliquot Plasma-Citrated-Blue Top
AQE10	Aliquot Edta
AQE11	Aliquot Edta



AQE12	Aliquot Edta
AQE13	Aliquot Edta
AQE14	Aliquot Edta
AQE15	Aliquot Edta
AQS10	Aliquot Serum 10
AQS11	Aliquot Serum 11
AQS12	Aliquot Serum 12
AQS13	Aliquot Serum 13
AQS14	Aliquot Serum 14
AQS15	Aliquot Serum 15
AQS16	Aliquot Serum 16
AQS17	Aliquot Serum 17
AQS18	Aliquot Serum 18
AQS19	Aliquot Serum 19
AQS20	Aliquot Serum 20
ATP	Anal ThinPrep Vial
AUSC	Ascorbic Acid Urine container
BAB	Breast Asp, Bottle
BB	Breath Bag, Blue/Pink
BCT	Cell Free DNA (Leopard Prt)
BCTS	Panorama Swab
BDA	Affirm(BD) VPIII
BIB	Biopsy In Formalin
BLK	Formalin-fixed, Paraffin-embedded Tissue
BMC	Bone Marrow - Clot in Formalin
BMCR	Bone Marrow Core in RPMI
BMCRF	Bone Marrow Core in Formalin
BMDNA	Bone Marrow DNA
BMG	Bone Marrow - Green Top
BML	Bone Marrow - Lavender Top
BS	Buccal Swab
BTLS	Blood Culture Bottles-Aerobic/Anaerobic
BTN	Black/Yellow, NMR
CAF	Cultured Amniotic Fluid
CCV	Cultured Chorionic Villi
CFDNA	Cell-Free DNA White Top Plastic Tube
CSP	Whole Blood - Cell Save Preservative Tube
CTC	Whole Blood-Cell Save Preservative Tube
CTF	Clot in Formalin
CUL	Swab-Bacterial Culture
CUP	Cup Plain
CVS	Chorinic Villi
DBS	Dried Blood Spot Card

DM	Diamond Media
DNA	Eppendorf tube
ECO	Eco Pak
ES	Swab-E
ESBL	Eswab Blue cap
FDP	FDP (Fibrin Degradation) Tube
FECS	Fecal Swab
FFN	Fetal Fibronectin
FIBRO	Fibroblasts
FLU	Fluid-source required
FLUC	Fluid Cup
FLUG	Fluid Green Top
FLUL	Fluid Lavender (source required)
FLUR	Fluid Red Top
FLUS	Fluid Swab
FNA	Fine Needle Aspirate
FOBT	FOBT Sample Bottle
GA	Green Aspirate
GPB	Peripheral Blood - Green Top
GR	Green top- Sodium Heparin
GRLT	Green- Lithium Heparin
GRY	Grey top- Sodium Fluoride
H&E	H & E Slide
HAI	Hair
HC	Stool-Hemoccult Card
HPV	Swab HPV Digene
HTLD	Heartland tube (serum)
JEM	JemBec Plates
KEK	Know Error Kit
LA	Lavender Aspirate
LAV	Lavender top- EDTA
LAV1	Lavender
LPB	Peripheral Blood - Lavender Top
LTB	Light blue top
MM	Micro media
MPINK	Male Pink(for Prenatal tests)
NMP	NMP22 Collection Container
NUSW	NUSWAB
O&P	O&P Kit (Total Fix)
O&P M	Ova & Parasite Mini
ORA	Oral Rinse
OTH	Other (forced comment) ?
PBTL	Pediatric Blood Culture Bottle

PEDG	Microtainer - Pediatric Green Top
PEDL	Pediatric Lavender
PEDR	Microtainer - Pediatric Red
PEDS	Microtainer - Pediatric SST
PEL	Cell Pellet
PIN	Pinworm slide w/tape, paddle
PINK	Pink Tube-EDTA
POC	Products of Conception
PPT	White Top (PPT)
PSC	Problem Specimen Clarify
PSD	Problem Specimen Damaged
PSG	Problem Specimen GenPath
PSN	Problem Specimen Names Mismatch
PTF	Swab-Probe Tec
PUGP	Progenesa Genprobe
PYR	PYR- Pyruvate tube
QFT	Green Top-Lithium Heparin
RBH	Royal Blue/NH Sodium
RBP	Blue-Royal Blue Top: K2 EDTA Plasma(lavender line)
RBS	Blue-Royal Blue Trace Element Serum (red line)
RCS	Roche Collection Swab
RDASC	Red top W/Asorbic Acid
RED	Red Top
RPMI	Tissue in RPMI
SCB	Swab-Amies with Charcoal-Black
SCV	Stool Clean Vial
SDNA	SDNA-Saliva DNA
SEM	Semen Cup
SHA	Shavings
SHN	Skin, Hair, Nails
SLI	Slides
SLIGY	Slide GYN
SLIS	Stained Slides
SLIU	Unstained Slide
SPORE	Duo Spore Test Kit
SPT	Surepath Tube
SPTH	Surepath Vial
SPU	Cup-Sputum
SRK	Stone Risk Kit
SSC	Slide(s) in Slide Carrier
SST	SST Tube
SSW	Salivatory
ST24	Stool-24 hr Stool

ST72	Stool-72 hr Stool
STAR	Swab-Star Swab
STC	Stool Cont. C/S (Cairy Blair)
STG	Stool Cont.-Cup
STN	Stone - Cup
STO	Stool Cont. Orange-Preservative for Culture
STY	Stool Cont. Yellow-Formaline
SV	Swab-Viral Culturette
SYN	Syneos (serum)
SYN1	CT Syneos tube 1
SYN2	CT Syneos tube 2
SYN3	CT Syneos tube 3
SYN4	CT Syneos tube 4
SYN5	CT Syneos tube 5
TAN	Tan Top
TBT	Quantiferon-TB -Tube
TBT4	Quantiferon-TB -Tube
TIC	Tick
TIS	Tissue
TMF	Too Many Flags
TNA	TNA Eppendorf Tube
TP	ThinPrep Vial
TPC	ThinPrep Cytolyt Solution
TPT	Thinprep Tube
U24	Urine Container - 24hr
UA	Urine Urinalysis Tube - Yellow
UAR	Urine tube without preservative
UBOR	Urine Container-Boricult
UBW	BLADDER WASHINGS
UCK	Voided Urine - Urocyte Collection Kit
UCOB	Urine Cobas Vial
UG	Green top urine
UGP	Urine Container-Genprobe-Aptima
UGTP	Green top urine (preservative)
UGY	Urine Tube - Grey Top
ULCR	Urine Tube BD
UMT	Urine Myoglobulin Transport Tube
URB	Blue-Royal Urine
URI	URICULT Urine CULTURE-PADDLES
USC	Urine Cup
WET	Wet mount
YEL	Yellow top- ACD
YELS	Yellow top- SPS

ZALQE	Aliquot Plasma for Zika
ZALQS	Aliquot Serum for Zika testing
ZLAV	Lavender for Zika
ZRED	Red top for Zika
ZSST	SST for Zika
ZTP	Z collection Plasma Tube
ZUAR	Urine tube without preservative for Zika
ZUGP	Urine Container-Genprobe-Aptima for Zika
ZUSC	Urine Cup for Zika

### Turn Around Time Object Reference (“TAT”)

Parameter	Description/Values
DivisionID	Lab Location
TurnAroundTime	Numerical value of turnaround time
TATDaysOrHours	D => Days H => Hours

### Reference Range Object Reference (“ReferenceRange”)

Parameter	Description/Values
NumericRanges	Object that contains the numerical values of a reference range. If a performing lab has different reference ranges then another the “Division” value will be present for the set of corresponding numerical values. See Numeric Range Reference Table.
NonNumericRanges	Object that contains the textual values of the reference range used for results. An asterisk as a Flag value is interpreted as abnormal. See Non-Numeric Range Reference Table.

### Numeric Range Object Reference (“NumericRanges”)

Parameter	Description/Values
Flag	L : Below low normal LL : Below low panic limits H : Above high normal HH : Above upper panic limits Null : No range defined, or normal ranges don’t apply
RangeFrom	Numerical start value for that range array
RangeTo	Numerical end value for that range array

### Non-Numeric Range Object Reference (“NonNumericRanges”)

Parameter	Description/Values
Flag	N : Normal A : Abnormal AA : Very Abnormal < : Below absolute low-off instrument scale > : Above absolute high-off instrument scale Null : No range defined, or normal ranges don't apply
ValueText	Alphanumeric text for reference range value

### Scarlet Eligibility Object Reference (“Scarlet”)

Parameter	Description/Values
ScarletEligibility	Value determines if the test can be used for Scarlet Health service collection. If Yes, than test can be used. If No, then it cannot.
IsStateRestriction	If Yes, Scarlet Health service eligible test cannot be used in state(s) listed in ScarletStateRestrictions
ScarletStateRestrictions	State abbreviation where Scarlet Health service cannot be used

### AOE Object Reference (“AOE”)

Parameter	Description/Values
AOEQuestionCode	Question Code to be sent in the POST Order request body
AOEQuestionText	AOE question text to be presented to user
Type	Question is order or test specific
AnswerRequired	If true, answer is required. If false, answer is not required
AnswerFormat	Suggested answer presentations to user. 1 => text field 2 => text box 4 => dropdown/radio button
Exceptions	Geographic areas that the question is either required or restricted. If value is empty, then question is for all geographic areas. See Condition.
Answers	AOEAnswerText value are pre-determined answers to present to the user as answers to the AOE question. If a message should be shown on the screen when an answer is chosen, then IsMessageOnSelection value will be true.
Condition	If value is “NEVER” and state value is present in “Exceptions” then question should only be used for patients in those states.

	If value is "ALWAYS" then question should be used for all except for states listed in "Exceptions"
Sequence	If value is present, Order AOE questions should be presented to the user in order of sequence numbers.

## Orders

Integrates with your healthcare system to create, update, search and retrieve details for laboratory test orders. An access token must be retrieved from the authorization token endpoint to use the APIs

### Create New Order

The Create New Order API endpoint allows for the creation of a new order as a HTTP POST request. Healthcare providers can integrate our API endpoints with their healthcare system to simplify the order creation process. Once the required information (i.e., patient information, healthcare provider information, insurance, etc.) has been entered and the order is processed, an Order ID will be generated.

Request:

**POST** <https://api-qa.bioreference.com/orders>

Request Body (In all non-required fields can send "empty string" or null where appropriate.):

```
{
  "AccountNumber": "J3333",
  "OVOrderNumber": "BIO-123",
  "DateOfCollection": "10/29/2019",
  "TimeOfCollection": "08:45 AM",
  "BillingType": "INSURANCE",
  "Insurances": [
    {
      "ActionType": 1,
      "InsuranceGroupName": "",
      "InsuranceGroupNumber": "wwe789",
      "InsurancePlanCode": "",
      "InsurancePlanID": "",
      "InsuredGroupEmpID": "",
      "InsuredGroupEmpName": "",
      "InsuredPolicyNumber": "wwf785",
      "InsuredFirstName": "",
      "InsuredLastName": "",
      "InsuredDateOfBirth": null,
      "InsuredState": "",
      "InsuredStreetLine1": "",
      "InsuredStreetLine2": "",
      "InsuredCity": "",
    }
  ]
}
```

```
    "InsuredZipCode": "",
    "PlanEffectiveDate": null,
    "PlanExpiryDate": "05/06/2023",
    "RelationWithPatient": "UNKNOWN"
  }
],
"Patient": {
  "FirstName": "RTestFirst",
  "MiddleName": "R",
  "LastName": "RTestLast",
  "DateOfBirth": "12/12/1992",
  "Gender": "FEMALE",
  "HomePhoneNumber": "123-123-1234",
  "HomeTelEquipmentType": "CP",
  "Email": "test@test.com",
  "StreetLine1": "475 MARKET STREET",
  "StreetLine2": "",
  "City": "ELMWOOD PARK",
  "State": "NJ",
  "ZipCode": "07407",
  "IsFasting": "NON_FASTING"
},
"PrimaryPhysician": {
  "ActionType": "1",
  "Code": "806078998"
  "FirstName": "JANICE",
  "LastName": "SMITH"
},
"Tests": [
  {
    "TestCode": "TH68",
    "ActionType": 1,
    "OrderTestAnswers": [
      {
        "QuestionCode": "0026",
        "AnswerText": ""
      }
    ]
  },
  {
    "TestCode": "TH69",
    "ActionType": 1
  }
]
}
```



## Order Request Body Reference

Parameter	Required	Type	Description/Values
AccountNumber	Yes	Alpha Numeric	BioReference Account Number Issued to Client
OVOrderNumber	Yes	Alpha Numeric (max 50)	Client created reference. Must be unique for each order
DateOfCollection	No	Date	MM/DD/YYYY
TimeOfCollection	No	Time	HH:MM AM/PM
BillingType	Yes	Alpha Numeric	MEDICARE MEDICAID BILL_ACCOUNT INSURANCE INSTITUTIONAL PATIENT
Insurances	Yes	Object	See Insurance Reference
Patient	Yes	Object	See Patient Reference
PrimaryPhysician	Yes	Object	See Primary Physician Reference
Tests	Yes	Object	See Tests Reference

## Insurance Object Reference ("Insurances")

Parameter	Required	Type	Description/Values
ActionType	No	Integer	1 => Add 2 => Update 3 => Delete
InsuranceGroupName	No	Alpha Numeric	
InsuranceGroupNumber	No	Alpha Numeric	
InsurancePlanCode	No	Alpha Numeric	
InsuredGroupEmpID	No	Alpha Numeric (max 50)	
InsuredGroupEmpName	No	Alpha Numeric	
InsuredPolicyNumber	No	Alpha Numeric (max 50)	
InsuredFirstName	No	Alpha Numeric	
InsuredLastname	No	Alpha Numeric (max 50)	
insuredDateOfBirth	No	Date	MM/DD/YYYY
InsuredState	No	Alpha Numeric (max 2)	2 character code
InsuredStreetLine1	No	Alpha Numeric (max 50)	
InsuredStreetLine2	No	Alpha Numeric (max 50)	
InsuredCity	No	Alpha Numeric (max 20)	
InsuredZipCode	No	Integer (max 5)	5 digit valid zip code
PlanEffectiveDate	No	Date	MM/DD/YYYY
PlanExpiryDate	No	Date	MM/DD/YYYY
RelationWithPatient	No	Alpha Numeric	UNKNOWN SELF FATHER MOTHER HUSBAND

			WIFE SON DAUGHTER STEP_FATHER STEP_MOTHER FOSTER_PARENT GRAND_PARENT LEGAL_GUARDIAN UNCLE AUNT EMPLOYER CHILD SPOUSE PARENT ADOPTED_CHILD FOSTER_CHILD GRAND_CHILD STUDENT_DEPENDENT OTHER_RELATIVE BROTHER SISTER FETUS_OF OTHER
--	--	--	---

Patient Object Reference (“Patient”)

Parameter	Required	Type	Description/Values
FirstName	Yes	Alpha Numeric (max 20)	
MiddleName	Yes	Alpha Numeric (max 20)	
LastName	No	Alpha Numeric (max 20)	
DateOfBirth	No	Date	MM/DD/YYYY
Gender	No	Alpha Numeric (max 20)	FEMALE MALE UNKNOWN
HomePhoneNumber	No	Alpha Numeric (max 50)	Required for Scarlet Backend Flow
HomeTelEquipmentType	No	Alpha Numeric (max 2)	CP => mobile phone PH => wired phone  Required for Scarlet Backend Flow
Email	Yes	Alpha Numeric	Required for Scarlet Backend Flow
StreetLine1	No	Alpha Numeric (max 50)	
StreetLine2	No	Alpha Numeric (max 50)	
City	No	Alpha Numeric (max 20)	
State	No	Alpha Numeric (max 2)	2 character code
ZipCode	No	Integer (max 5)	5 digit valid zip code
IsFasting	No	Alpha Numeric	FASTING NON_FASTING

## Primary Physician Object Reference (“PrimaryPhysician”)

Parameter	Required	Type	Description/Values
ActionType	No	Integer	1 => Add 2 => Update 3 => Delete
Code	No	Alpha Numeric (max 20)	NPI Number
FirstName	No	Alpha Numeric (max 20)	
LastName	No	Alpha Numeric (max 50)	

## Tests Object Reference (“Tests”)

Parameter	Required	Type	Description/Values
TestCode	Yes	Alpha Numeric	Valid Test Code
ActionType	Yes	Integer	1 => Add 2 => Update 3 => Delete
OrderTestAnswers		Object	See Order Test Answer Reference

## Order Test Answers Object Reference (“OrderTestAnswers”)

Parameter	Required	Type	Description/Values
QuestionCode	No	Alpha Numeric	AOE Question Code (Test Detail endpoint response)
AnswerText	No	Alpha Numeric	AOE Question Answer (Test Detail endpoint response)

Successful Response:

```
{
  "OrderPatientId": "4389388",
  "OrderGuarantorId": "0",
  "TestIds": [
    {
      "OrderTestId": "27143980",
      "ExternalId": "",
      "TestCode": "TH68",
      "HoldCode": "",
      "OrderedTestCode": "",
      "AccessioningFacility": "",
      "AccessionNumber": "",
      "AutoAddParentCode": "",
      "HoldDescr": "",
      "IsAutoAddOnNSR": false,
      "IsHoldOverridden": false,
    }
  ]
}
```

```
"PerformingFacility": "",
"PrimarySpecimen": "",
"AlternateSpecimen": "",
"TestSource": 0,
"TestStatus": "",
"TestName": "",
"OrderedTestName": "",
"AutoAddParentName": "",
"FullTestCode": "",
"FullOrderedTestCode": "",
"FullAutoAddParentCode": "",
"OrderTestAnswers": [
  {
    "OrderTestAnswerId": "0",
    "QuestionCode": "C343"
  },
  {
    "OrderTestAnswerId": "0",
    "QuestionCode": "C276"
  },
  {
    "OrderTestAnswerId": "0",
    "QuestionCode": "C281"
  },
  {
    "OrderTestAnswerId": "0",
    "QuestionCode": "C340"
  },
  {
    "OrderTestAnswerId": "0",
    "QuestionCode": "C341"
  },
  {
    "OrderTestAnswerId": "0",
    "QuestionCode": "C342"
  },
  {
    "OrderTestAnswerId": "0",
    "QuestionCode": "C344"
  },
  {
    "OrderTestAnswerId": "0",
    "QuestionCode": "C345"
  },
  {
    "OrderTestAnswerId": "0",
    "QuestionCode": "0026"
  },
],
```

```
    {
      "OrderTestAnswerId": "0",
      "QuestionCode": "C322"
    }
  ],
},
{
  "OrderTestId": "27143981",
  "ExternalId": "",
  "TestCode": "0024",
  "HoldCode": "",
  "OrderedTestCode": "",
  "AccessioningFacility": "",
  "AccessionNumber": "",
  "AutoAddParentCode": "",
  "HoldDescr": "",
  "IsAutoAddOnNSR": false,
  "IsHoldOverridden": false,
  "PerformingFacility": "",
  "PrimarySpecimen": "",
  "AlternateSpecimen": "",
  "TestSource": 0,
  "TestStatus": "",
  "TestName": "",
  "OrderedTestName": "",
  "AutoAddParentName": "",
  "FullTestCode": "",
  "FullOrderedTestCode": "",
  "FullAutoAddParentCode": "",
  "OrderTestAnswers": [
    {
      "OrderTestAnswerId": "0",
      "QuestionCode": "C013"
    }
  ]
}
],
"PhysicianIds": [
  {
    "OrderPhysicianId": "12515366",
    "Code": "0000000",
    "FirstName": "JANE",
    "LastName": "SMITH"
  }
],
"InsuranceIds": [
  {
    "OrderPatientInsuranceId": "2405344",
```

```

    "InsuranceCompanyID": "333",
    "InsuranceCompanyName": "Client"
  }
],
"SpecimenIds": [],
"HandlingInstructions": [],
"ICDIds": [],
"OrderId": "4455405",
"AccessionNumber": null,
"Status": "",
"Messages": [
  {
    "Message": "OrderID Created:<4455405>",
    "Warning": true
  }
]
}

```

## Update An Order

The Update Order API endpoint allows for the updating of an existing order as a HTTP PUT request. Healthcare providers can integrate our API endpoints with their healthcare system to simplify how orders are updated. Update orders to change or add time, location or other relevant information. An Order ID from a previously submitted order is required to make changes.

Request:

PUT <https://api-qa.bioreference.com/orders>

Request Body (In all non-required fields can send "empty string" or null where appropriate.) is the same as POST Order. For updates in objects that have an actionType, please use the appropriate action.

Parameter	Required	Type	Description/Values
ActionType	No	Integer	1 => Add 2 => Update 3 => Delete

```

{
  "OrderId": "34767736",
  "AccountNumber": "J3333",
  "OOrderNumber": "BIO-123",
  "DateOfCollection": "10/29/2019",
  "TimeOfCollection": "08:45 AM",
  "BillingType": "INSURANCE",
  "Insurances": [
    {

```

```
    "ActionType": 1,  
    "InsuranceGroupName": "",  
    "InsuranceGroupNumber": "wwe789",  
    "InsurancePlanCode": "",  
    "InsurancePlanID": "",  
    "InsuredGroupEmpID": "",  
    "InsuredGroupEmpName": "",  
    "InsuredPolicyNumber": "wwf785",  
    "InsuredFirstName": "",  
    "InsuredLastName": "",  
    "InsuredDateOfBirth": null,  
    "InsuredState": "",  
    "InsuredStreetLine1": "",  
    "InsuredStreetLine2": "",  
    "InsuredCity": "",  
    "InsuredZipCode": "",  
    "PlanEffectiveDate": null,  
    "PlanExpiryDate": "05/06/2023",  
    "RelationWithPatient": "UNKNOWN"  
  }  
],  
"Patient": {  
  "FirstName": "RTestFirst",  
  "MiddleName": "R",  
  "LastName": "RTestLast",  
  "DateOfBirth": "12/12/1992",  
  "Gender": "FEMALE",  
  "HomePhoneNumber": "123-123-1234",  
  "HomeTelEquipmentType": "CP",  
  "Email": "test@test.com",  
  "StreetLine1": "475 MARKET STREET",  
  "StreetLine2": "",  
  "City": "ELMWOOD PARK",  
  "State": "NJ",  
  "ZipCode": "07407",  
  "IsFasting": "NON_FASTING"  
},  
"PrimaryPhysician": {  
  "ActionType": "1",  
  "Code": "806078998",  
  "FirstName": "JANICE",  
  "LastName": "SMITH"  
},  
"Tests": [  
  {  
    "TestCode": "TH68",  
    "ActionType": 1,  
    "OrderTestAnswers": [  

```

```

    {
      "QuestionCode": "0026",
      "AnswerText": ""
    }
  ],
  {
    "TestCode": "TH69",
    "ActionType": 1
  }
]
}

```

## Order Search

This endpoint will return a list of orders based on the provided parameters. Search parameters include date range, accession status, patient name and/or provider name. You can query by individual parameter or combine them to retrieve a set of orders.

Request:

**GET** <https://api-qa.bioreference.com/orders/order-search>

Request Header Parameters:

Parameter	Required	Type	Description/Values
FromDate	No	Date	MM/DD/YYYY If no value is passed will return the last 6 months of orders.
ToDate	No	Date	MM/DD/YYYY If no value is passed will return the last 6 months of orders.
AccountID	No	String	BioReference Account Number
PatientFirstName	No	String	Patient's first name
PatientLastName	No	String	Patient's last name
PatientDOB	No	Date	MM/DD/YYYY
FetchAccessioned	No	Boolean	If set to true will filter response to provide only accessioned orders.  Default value is false. It will filter the response to provide orders that have not been accessioned.
ProviderFirstName	No	String	Provider's first name is conditional with PatientFirstName or PatientLastName
ProviderLastName	No	String	Provider's last name is conditional with PatientFirstName or PatientLastName



Successful Response:

```
{
  "TotalOrderCount": 2,
  "ListOrdersSummary": [
    {
      "OrderID": 4455250,
      "EReqNo": "J3333,TEST1234",
      "AccountNumber": "J3333",
      "OVOrderNumber": "TEST1234",
      "EnterpriseNumber": "32C8YCL",
      "ReceivedDate": "3/10/2022 9:02:19 AM",
      "CollectionDate": "10/29/2019",
      "CollectionTime": "08:45 AM",
      "PatientID": "",
      "PatientEUID": "1508564476",
      "PatientLastName": "RTestLast",
      "PatientFirstName": "RTestFirst",
      "PatientMiddleName": "R",
      "PatientSSN": "",
      "PatientSex": "FEMALE",
      "PatientDOB": "12/12/1992",
      "PatientAge": "",
      "StreetLine1": "475 MARKET STREET",
      "StreetLine2": "",
      "PatientCity": "ELMWOOD PARK",
      "PatientState": "NJ",
      "PatientZip": "07407",
      "PatientPhone": "1231231234",
      "PhysicianProviderId": "0",
      "PhysicianNPI": "0000000",
      "PhysicianLastName": "SMITH",
      "PhysicianFirstName": "JANE",
      "PhysicianStreetLine1": "",
      "PhysicianStreetLine2": "",
      "PhysicianCity": "",
      "PhysicianState": "",
      "PhysicianZip": "",
      "AccessionNumber": "",
      "PatientPhoneEquipmentType": "",
      "PatientWorkPhone": "",
      "PatientWorkPhoneEquipmentType": "",
      "PatientEmail": "test@test.com",
      "PatientFax": "",
      "EnterersFirstName": "",
      "EnterersLastName": "",
      "EnterersLocation": "",
      "EnterersLocationType": ""
    }
  ]
}
```

```
"TimeZoneCode": "ET",
"TimeZoneDescription": "North America Eastern Time",
"OrderTestSummary": [
  {
    "OrderTestID": "27143695",
    "FullTestCode": "TH68-0",
    "TestCode": "TH68",
    "TestName": "COVID-19 Nasal/Nasopharynx",
    "DateOrdered": "1/1/1900",
    "AccessionNumber": ""
  },
  {
    "OrderTestID": "27143696",
    "FullTestCode": "TH69-8",
    "TestCode": "TH69",
    "TestName": "COVID-19 Oropharynx",
    "DateOrdered": "1/1/1900",
    "AccessionNumber": ""
  },
  {
    "OrderTestID": "27143697",
    "FullTestCode": "TH71-4",
    "TestCode": "TH71",
    "TestName": "COVID-19 Pooled N/NP/OP",
    "DateOrdered": "1/1/1900",
    "AccessionNumber": ""
  }
]
},
{
  "OrderID": 4454300,
  "EReqNo": "J3333,1234567",
  "AccountNumber": "J3333",
  "OVOrderNumber": "",
  "EnterpriseNumber": "32C8XEW",
  "ReceivedDate": "2/21/2022 12:20:11 PM",
  "CollectionDate": "10/29/2019",
  "CollectionTime": "08:45 AM",
  "PatientID": "",
  "PatientEUID": "1508562290",
  "PatientLastName": "RTestLast",
  "PatientFirstName": "RTestFirst",
  "PatientMiddleName": "R",
  "PatientSSN": "",
  "PatientSex": "FEMALE",
  "PatientDOB": "12/12/1992",
  "PatientAge": "",
  "StreetLine1": "475 MARKET STREET",
```

```
"StreetLine2": "",
"PatientCity": "ELMWOOD PARK",
"PatientState": "NJ",
"PatientZip": "07407",
"PatientPhone": "12312312",
"PhysicianProviderId": "0",
"PhysicianNPI": "8760",
"PhysicianLastName": "RIVERA",
"PhysicianFirstName": "ARSENIA",
"PhysicianStreetLine1": "",
"PhysicianStreetLine2": "",
"PhysicianCity": "",
"PhysicianState": "",
"PhysicianZip": "",
"AccessionNumber": "",
"PatientPhoneEquipmentType": "CP",
"PatientWorkPhone": "",
"PatientWorkPhoneEquipmentType": "",
"PatientEmail": "test@test.com",
"PatientFax": "",
"EnterersFirstName": "",
"EnterersLastName": "",
"EnterersLocation": "",
"EnterersLocationType": "",
"TimeZoneCode": "ET",
"TimeZoneDescription": "North America Eastern Time",
"OrderTestSummary": [
  {
    "OrderTestID": "27139519",
    "FullTestCode": "TH68-0",
    "TestCode": "TH68",
    "TestName": "COVID-19 Nasal/Nasopharynx",
    "DateOrdered": "1/1/1900",
    "AccessionNumber": ""
  },
  {
    "OrderTestID": "27139520",
    "FullTestCode": "TH69-8",
    "TestCode": "TH69",
    "TestName": "COVID-19 Oropharynx",
    "DateOrdered": "1/1/1900",
    "AccessionNumber": ""
  }
]
```

## Order Detail

Retrieve the details and obtain the status of a submitted order using the order ID.

Request:

GET <https://api-ga.bioreference.com/orders>

Request Header Parameter:

Parameter	Required	Type	Description/Values
orderId	Yes	Numerical	Obtained from the response of POST order

Successful Response:

```
{
  "OrderResponse": {
    "OrderId": 4454300,
    "AccessioningDivision": "",
    "AccessioningFacility": "",
    "AccessionNumber": "",
    "AccountNumber": "J3333",
    "AccountPriority": "HI",
    "AlternateDateCollected": "01/01/1900",
    "AlternateOrderNumber": "",
    "ArchiveDate": "1/1/1900",
    "BarcodeString": "",
    "BillingType": "INSURANCE",
    "ClientApplicationID": "0",
    "Comments": "",
    "DateOfCollection": "10/29/2019",
    "DateOfService": "1/1/1900",
    "DateTimeOfTran": "1/1/1900",
    "EnterersFirstName": "",
    "EnterersLastName": "",
    "EnterersLocation": "",
    "EnterersLocationType": "",
    "EnterpriseNumber": "3FHJX9W",
    "EReqNumber": "J3333,1234567",
    "ExternalApplicationId": "",
    "FamilyNumber": "",
    "HasPhysicianSignature": false,
    "IsArchived": false,
    "IsBioRequisition": true,
    "IsNamesMatch": true,
    "IsTwoIDOnSpecimen": false,
  }
}
```

```
"LabCode": "",
"OrderSource": "ETS_PUB",
"OVOrderNumber": "",
"PatientClass": "",
"DischargeDate": "0001-01-01T00:00:00",
"Priority": "UNKNOWN",
"ReferringPhysician": "",
"RequisitionType": "UNKNOWN",
"SendCopyToMethod": "0",
"SendingApplication": "",
"SendingFacility": "",
"Source": "",
"SpecimenComments": "",
"SurgicalNumber": "",
"TestComments": "",
"TimeOfCollection": "08:45 AM",
"TimeZoneCode": "ET",
"TimeZoneDescription": "North America Eastern Time",
"UpdateReason": "",
"UTCOffset": "-0500",
"InitialReceivedDate": "1900-01-01T00:00:00",
"AccountInfo": null,
"BenefitInvestigations": null,
"Documents": null,
"Guarantor": {
  "OrderGuarantorId": "0",
  "City": "",
  "DateOfBirth": "",
  "EmployerCity": "",
  "EmployerFirstName": "",
  "EmployerLastName": "",
  "EmployerPhone": "",
  "EmployerState": "",
  "EmployerStreetLine1": "",
  "EmployerStreetLine2": "",
  "EmployerZipCode": "",
  "FirstName": "",
  "Gender": "Unknown",
  "HomePhoneNumber": "",
  "LastName": "",
  "Relation": "UNKNOWN",
  "SocialSecurityNum": "",
  "State": "",
  "StreetLine1": "",
  "StreetLine2": "",
  "WorkPhoneNumber": "",
  "ZipCode": ""
},
```

```
"ICD9s": [],
"Insurances": [
  {
    "OrderPatientInsuranceId": 2404266,
    "BillingCode": "",
    "Priority": 0,
    "InsuranceCompanyCity": "",
    "InsuranceCompanyContact": "",
    "InsuranceCompanyID": "",
    "InsuranceCompanyName": "",
    "InsuranceCompanyPhone": "",
    "InsuranceCompanyState": "",
    "InsuranceCompanyStreetLine1": "",
    "InsuranceCompanyStreetLine2": "",
    "InsuranceCompanyZipCode": "",
    "InsuranceGroupName": "",
    "InsuranceGroupNumber": "HJK789",
    "InsurancePlanCode": "",
    "InsurancePlanID": "",
    "InsuredCity": "",
    "InsuredDateOfBirth": "01/01/1900",
    "InsuredFirstName": "",
    "InsuredGender": "Unknown",
    "InsuredGroupEmpID": "",
    "InsuredGroupEmpName": "",
    "InsuredLastName": "",
    "InsuredPolicyNumber": "wwf785",
    "InsuredSocialSecurityNum": "",
    "InsuredState": "",
    "InsuredStreetLine1": "",
    "InsuredStreetLine2": "",
    "InsuredZipCode": "",
    "PlanEffectiveDate": "1/1/1900",
    "PlanExpiryDate": "5/6/2023",
    "RelationWithPatient": "UNKNOWN"
  }
],
"MetaData": null,
"Notes": null,
"OrderAnswers": null,
"Patient": {
  "OrderPatientId": "4388290",
  "Age": "",
  "AlternateExternalID": "",
  "Bed": "",
  "City": "ELMWOOD PARK",
  "ClinicalInformation": "",
  "Country": "",
```

```
"DateOfBirth": "12/12/1992",
"Ethnicity": "",
"EthnicityCode": "U",
"EUID": 1508562290,
"FaxNumber": "",
"FirstName": "RTestFirst",
"Gender": "Female",
"GovernmentId": "",
"GovernmentIdLabel": "",
"HomePhoneNumber": "1231231234",
"InternalId": "",
"IsFasting": "NON_FASTING",
"Karyotype": "",
"LastName": "RTestLast",
"MiddleName": "R",
"OtherSubmittedId": "",
"PatientAccountNumber": "",
"PatientId": "",
"Race": "",
"RelatedPatients": [],
"Room": "",
"SetAge": false,
"SocialSecurityNum": "",
"State": "NJ",
"StreetLine1": "475 MARKET STREET",
"StreetLine2": "",
"Email": "test@test.com",
"Type": "0",
"Unit": "",
"WorkPhone": "",
"ZipCode": "07407",
"WorkTelEquipmentType": "",
"HomeTelEquipmentType": "CP"
},
"PrimaryPhysician": {
  "OrderPhysicianId": "12510558",
  "AccountName": "",
  "AccountNumber": "",
  "City": "",
  "Code": "8760",
  "DateOfBirth": "",
  "FaxNumber": "",
  "FirstName": "Jane",
  "Gender": "Unknown",
  "HomePhoneNumber": "",
  "IsDeleted": false,
  "LastName": "SMITH",
  "MiddleName": "",
```

```
"NPI": "",
"ProviderId": "0",
"SocialSecurityNum": "",
"State": "",
"StreetLine1": "",
"StreetLine2": "",
"Suffix": "",
"Title": "",
"Type": "Primary",
"WorkPhoneNumber": "",
"ZipCode": ""
},
"ProviderTransmissionProtocols": [],
"SecondaryPhysicians": [],
"Specimens": [],
"Tests": [
  {
    "OrderTestId": 27139519,
    "AccessioningFacility": "",
    "AccessionNumber": "",
    "AutoAddParentCode": "",
    "BillingApprovedDate": "1/1/1900",
    "BillingHasApprovedDate": "",
    "NeedsBillingApproval": "",
    "BillingType": "UNKNOWN",
    "BillType": null,
    "CancelledDate": "1/1/1900",
    "ClinicalInformation": "",
    "CodeTypeId": "Test",
    "Comments": "",
    "DateAccessionChecked": "1/1/1900",
    "DateCollected": "1/1/1900",
    "DateHold": "1/1/1900",
    "DateOffHold": "",
    "DateOrdered": "1/1/1900",
    "DateStarted": "1/1/1900",
    "DivisionId": 0,
    "DueDate": "",
    "EBStatus": "0",
    "ExternalAccessionNumber": "",
    "ExternalId": "",
    "FinishedDate": "1/1/1900",
    "ReActivated": false,
    "ControlFlag": "",
    "IsReflex": false,
    "IsMGT": false,
    "TestResultHold": false,
    "IsPresumptiveTest": false,
```



```
"FullTestCode": "TH68-0",
"GREReportID": "",
"GREReportInstanceID": "",
"HasConsent": "NO",
"HasConsentForBilling": false,
"HasReflexes": false,
"HoldCode": "",
"HoldDescr": "",
"HoldIssues": [],
"HoldIssuesOther": "",
"HoldReason": "",
"InvoicedDate": null,
"IsAddOnTest": "False",
"IsAutoAddOnNSR": false,
"IsHoldOverriden": false,
"IsNoCharge": false,
"IsSentOut": false,
"IsSentToTS": false,
"LabCheckApproval": "",
"LIMSTestCode": "",
"ManualGene": "",
"MOHApprovalProvided": "",
"Notes": "",
"NYStateApproved": "",
"OrderedTestCode": "",
"OrderedTestName": "",
"ParentTestCode": "",
"PerformingFacility": "",
"PlaceholderId": 1,
"PlacerField1": "",
"PlacerField2": "",
"PlacerNumber": "",
"Priority": "",
"ReflexParent": "",
"ReplacesExternalId": "",
"ReportReview1": "",
"ReportSubmitted": "",
"ResultLog": "",
"ResultLogApproval": "",
"SourceSite": "",
"SpecimenSource": "",
"Status": "",
"StatusDetails": "",
"TestCode": "TH68",
"TestName": "COVID-19 Nasal/Nasopharynx",
"TestSource": "0",
"TestStatus": "",
"UpdateReasonId": null,
```

```
    "UpdateReasonDescr": null,  
    "ABNStatus": null,  
    "ABNReason": null,  
    "ABNOption": null,  
    "ABNReceived": null,  
    "MetaData": null,  
    "OrderTestAnswers": null,  
    "BIs": null,  
    "PaymentMethodsStr": "",  
    "Physicians": [],  
    "PrimaryPhysician": null,  
    "SecondaryPhysicians": [],  
    "Issues": [],  
    "CancelledReason": null,  
    "CancelledCode": null,  
    "AlternateSpecimenCodes": [],  
    "PrimarySpecimenCodes": []  
  },  
  {  
    "OrderTestId": 27139520,  
    "AccessioningFacility": "",  
    "AccessionNumber": "",  
    "AutoAddParentCode": "",  
    "BillingApprovedDate": "1/1/1900",  
    "BillingHasApprovedDate": "",  
    "NeedsBillingApproval": "",  
    "BillingType": "UNKNOWN",  
    "BillType": null,  
    "CancelledDate": "1/1/1900",  
    "ClinicalInformation": "",  
    "CodeTypeId": "Test",  
    "Comments": "",  
    "DateAccessionChecked": "1/1/1900",  
    "DateCollected": "1/1/1900",  
    "DateHold": "1/1/1900",  
    "DateOffHold": "",  
    "DateOrdered": "1/1/1900",  
    "DateStarted": "1/1/1900",  
    "DivisionId": 0,  
    "DueDate": "",  
    "EBStatus": "0",  
    "ExternalAccessionNumber": "",  
    "ExternalId": "",  
    "FinishedDate": "1/1/1900",  
    "ReActivated": false,  
    "ControlFlag": "",  
    "IsReflex": false,  
    "IsMGT": false,
```

```
"TestResultHold": false,
"IsPresumptiveTest": false,
"FullTestCode": "TH69-8",
"GREReportID": "",
"GREReportInstanceID": "",
"HasConsent": "NO",
"HasConsentForBilling": false,
"HasReflexes": false,
"HoldCode": "",
"HoldDescr": "",
"HoldIssues": [],
"HoldIssuesOther": "",
"HoldReason": "",
"InvoicedDate": null,
"IsAddOnTest": "False",
"IsAutoAddOnNSR": false,
"IsHoldOverriden": false,
"IsNoCharge": false,
"IsSentOut": false,
"IsSentToTS": false,
"LabCheckApproval": "",
"LIMSTestCode": "",
"ManualGene": "",
"MOHApprovalProvided": "",
"Notes": "",
"NYStateApproved": "",
"OrderedTestCode": "",
"OrderedTestName": "",
"ParentTestCode": "",
"PerformingFacility": "",
"PlaceholderId": 2,
"PlacerField1": "",
"PlacerField2": "",
"PlacerNumber": "",
"Priority": "",
"ReflexParent": "",
"ReplacesExternalId": "",
"ReportReview1": "",
"ReportSubmitted": "",
"ResultLog": "",
"ResultLogApproval": "",
"SourceSite": "",
"SpecimenSource": "",
"Status": "",
"StatusDetails": "",
"TestCode": "TH69",
"TestName": "COVID-19 Oropharynx",
"TestSource": "0",
```

```
    "TestStatus": "",
    "UpdateReasonId": null,
    "UpdateReasonDescr": null,
    "ABNStatus": null,
    "ABNReason": null,
    "ABNOption": null,
    "ABNReceived": null,
    "MetaData": null,
    "OrderTestAnswers": null,
    "BIs": null,
    "PaymentMethodsStr": "",
    "Physicians": [],
    "PrimaryPhysician": null,
    "SecondaryPhysicians": [],
    "Issues": [],
    "CancelledReason": null,
    "CancelledCode": null,
    "AlternateSpecimenCodes": [],
    "PrimarySpecimenCodes": []
  }
],
"TransmissionProtocols": [],
"CallingApplication": "Unknown",
"MessageType": "",
"StudyNumber": "",
"VisitNumber": "",
"IsMGT": false,
"ValidateOnly": false,
"WorkflowType": "",
"WorkflowStep": "",
"SC_WorkFlowType": "",
"SC_WorkFlowStatus": "",
"ExternalKitID": "",
"ParentAccount": "",
"BillType": null,
"CaseType": null,
"ClinicalInformation": null,
"ComputerName": null,
"SpecimenTrackingId": null,
"CreatedBy": null,
"UpdatedBy": null,
"CreatedDate": "0001-01-01T00:00:00",
"UpdatedDate": "0001-01-01T00:00:00",
"AccessionStatus": "Unknown",
"ReportHold": false,
"AccessionYear": "",
"AccessionCreateSessionStartDateTime": "0001-01-01T00:00:00",
"AccessionCreateSessionEndDateTime": "0001-01-01T00:00:00"
```

```
  },  
  "Status": "",  
  "Messages": [],  
  "HasErrors": false  
}
```

## Scheduling

Endpoints for supporting scheduling functions such as saving appointments, cancelling a booking appointment, obtaining appointment details, finding locations/service centers, and checking Scarlet serviceable zip/postal codes. Using the APIs requires an access token to be retrieved from the authorization token endpoint.

### Obtain a Session ID

Obtain a unique session identifier (id) that is necessary to use the address-autocomplete endpoint.

Request:

**GET** <https://api-qa.bioreference.com/scheduling/address/session-id>

Successful Response:

```
{  
  "success": true,  
  "stackTrace": null,  
  "message": "",  
  "errorMessage": "",  
  "data": "ae7e7210-fae6-4..."  
}
```

Data value is the session ID needed for the address autocomplete endpoint.

### Address Autocomplete

This enables "type ahead/auto suggest" functionality of matches for addresses entered by a user.

Request:

**GET** <https://api-qa.bioreference.com/scheduling/address/auto-complete/US/{searchtext}>

Request Header Parameter:

Parameter	Required	Type	Description/Values
session-id	Yes	string	Value acquired from session-id endpoint

## Successful Response:

```
{
  "success": true,
  "stackTrace": null,
  "message": "",
  "errorMessage": "",
  "data": [
    {
      "zip": null,
      "timezone": null,
      "text": null,
      "state": null,
      "geometry": {
        "lng": null,
        "lat": null,
        "address": null
      },
      "fullAddress": "3 Nixon Road, Lavaca, AR, USA",
      "country": null,
      "city": null,
      "secondaryAddress": "Lavaca, AR, USA",
      "primaryAddress": "3 Nixon Road",
      "placeId": "ChIJJo6-DcTW7y4cR-K_jaULN0TU"
    },
  ],
}
```

## Scarlet Serviceable Area

This checks whether the submitted zip/postal code is in a Scarlet serviceable area.

Request:

**GET** <https://api-qa.bioreference.com/scheduling/address/postal-code/{postal-code}>

Request Query Parameters:

Parameter	Required	Type	Description/Values
postal-code	Yes	string	Valid 5 digit US postal code

Successful Response:

```
{
  "success": true,
  "stackTrace": null,
  "message": "",
  "errorMessage": "",
}
```

```
"data": "Yes"
```

```
}
```

If data value “Yes”, then postal code is Scarlet serviceable. If “No”, then not serviceable by Scarlet.