

# iTunes Search API Test Coverage Documentation

## 1. Basic Search Functionality

### 1.1 Test Case: Valid Search Query (for all media types & with entities)

Test Steps:

Send a search request with a valid query.

Validate that the response includes relevant items matching the search query.

Expected Result:

The API response contains accurate and relevant information for the specified search query.

## 2. Handling Invalid Search Queries

### 2.1 Test Case: Invalid Search Query(for all media types & with entities)

Test Steps:

Send a search request with an invalid or empty query.

Verify that the API responds with a 400 Bad Request status code.

Confirm that the response includes a clear error message indicating the invalid query.

Expected Result:

The API returns a 400 Bad Request status code and provides an informative error message indicating the invalid query.

## 3. Search Result Accuracy

### 3.1 Test Case: Accuracy of Search Results

Test Steps:

Perform search requests with known queries and items.

Validate that the API returns accurate results, including correct names, artists, genres, etc.

Expected Result:

The API response accurately reflects the items matching the provided search criteria.

## 4.Result count

### 4.1 Test Case: Verify all possible limits to limit result count

Test Steps:

Send a search request with query param limit

Verify that the API returns the correct number of items per limit specified(also covered invalid, maximum, minimum, boundary limits and with no limit)

Expected Result:

The API response accurately reflects same number of results as per limit specified

## **5. Empty Values**

### **5.1 Test Case: Verify Response must not contain empty values**

Test Steps:

Send a search request with parameters

Verify that the API returns with no empty values in each result (url's and mandatory fields)

Expected Result:

The API response accurately reflects the all major values not empty

## **6. Country and Language Support**

### **6.1 Test Case: Search by Country**

Test Steps:

Send a search request with a valid query and specify a country parameter.

Validate that the API returns results relevant to the specified country.

Expected Result:

The API returns search results to the specified country.

### **6.2 Test Case: Search by language**

Test Steps:

Send a search request with a valid query and specify a country parameter.

Validate that the API returns results relevant to the specified country.

Expected Result:

The API returns search results to the specified language.

## 7. Handling Special Characters

### 7.1 Test Case: Search Query with Special Characters

Test Steps:

Send a search request with a query containing special characters.

Validate that the API handles the special characters gracefully and returns accurate results.

Expected Result:

The API correctly processes search queries with special characters and provides relevant results