# 6.8.2 Data Exchange API - Third party testing

## Data Exchange API instruction

This document will instruct how to use the Data Exchange API to get the search option.

## Get search for

This will get data for search for dropdown on Data Exchange UI by page.

* Endpoint: api/data-exchange/search-option
* Query parameter:
	+ group:
		- Mandatory: required
		- value is the name of the page on Data exchange UI. See on available group list below
* Example: api/data-exchange/search-option?group=Calving Ease
* Available value of group:
	+ ID/Pedigree
	+ Evaluation
	+ Genotype
	+ Progeny
	+ Lactation
	+ Errors
	+ Herd
	+ Special Section
	+ Reports
	+ Calving Ease
	+ Create Format
* Result:
* [
* {
* "Field": "Animal ID (17 bytes)",
* "Value": "ANIM\_KEY\_17",
* "inStock": false
* },
* {
* "Field": "Herd ID",
* "Value": "HERD\_ID",
* "inStock": false
* }

]

## Get API request

This will get data for API request dropdown on Data Exchange UI by page and search for.

* Endpoint: api/data-exchange/query-list-option-key
* Query parameters:
	+ group: value is the name of the page on Data exchange UI
		- Mandatory: required
		- Value is the name of the page on Data exchange UI. See the full available group list below.
	+ option\_key:
		- Mandatory: required
		- Value: depend on **Get search for** result. See the full available option key below.
			* Example: ANIM\_KEY\_17, ANIM\_KEY\_12
	+ sex:
		- Mandatory: optional
		- Value: Male/Female
* Example: api/data-exchange/query-list-option-key?group=ID/Pedigree&option\_key=ANIM\_KEY\_17
* Available group values:
	+ ID/Pedigree
	+ Evaluation
	+ Genotype
	+ Progeny
	+ Lactation
	+ Errors
	+ Herd
	+ Special Section
	+ Reports
	+ Calving Ease
	+ Create Format
* Available option\_key values:
	+ ANIM\_KEY\_6: Last 6 characters
	+ ANIM\_KEY\_12: Animal ID (12 bytes)
	+ ANIM\_KEY\_17: Animal ID (17 bytes)
	+ ANIM\_KEY\_17\_SEX: Animal ID + Sex Code (18 bytes)
	+ ITB\_ID: Animal Interbull ID (19 bytes)
	+ SAMPLE\_ID\_SEX: Sample ID (20 bytes max)
	+ NAAB\_CODE: NAAB Code
	+ SHORT\_NAME: Short Name
	+ PARTIAL\_FULL\_NAME: Partial Full Name
	+ HERD\_CTRL\_NUM: Herd + Cow Control Number
	+ HERD\_ID: Herd ID
	+ ID\_RANGE: ID Range
	+ FMT1: FMT1 Record
	+ BARCODE\_POSITION: Barcode & Position
	+ DAM\_BIRTH: Dam ID + Calf Birth Date
	+ AFFILIATE: Affiliate Short Name
	+ ASCII: A plain ASCII text file
	+ RPT\_GENOTYPES\_FEE\_CODE: Lists Genotypes with Fee Code=N Loaded in the Past 6 Months
	+ RPT\_INVOICE\_GENOTYPES: Fee Codes for Genotypes Loaded Since the Last Invoice
	+ RPT\_GENOMIC\_PARENTAGE: Lists Parentage only Genotypes Since the Previous Genomic Run
	+ RPT\_REPORT\_MISSING\_ANIMAL: Reports Missing Animal ID for a Requester
	+ RPT\_45\_DAYS\_GENOTYPES: Conflicts for Genotypes Loaded in the Past 45 Days
	+ RPT\_75\_DAYS\_MISSING\_PEDIGREE: Check for Missing Pedigree of Animals Nominated in the Past 75 Days
	+ RPT\_GENOTYPES\_WITHIN\_ANIMAL: List Conflicting Genotypes within Animal (Negative Keys)
	+ RPT\_ANIMALS\_UNLIKELY\_GRANDSIRE: Animals with Unlikely Grandsire (and no Other Conflict) in the Past 6 Months
	+ RPT\_IMPUTED\_DAM\_GENOTYPED: Animals with Genotypes that Conflict with Imputed Dam Genotypes
	+ RPT\_45\_DAYS\_PARENTAGE: Parentage Verification records for Genotypes Loaded in the Past 45 Days
	+ METRICS\_NOMINATION: Nominator Performance Metrics
	+ METRICS\_LABORATORY: Laboratory Performance Metrics
	+ SIRE\_DAM\_ID: Sire and Dam ID's (35 bytes)
	+ DERIVE\_STD\_INPUT
* Result:
* [
* {
* "Field": "Get Animal 5-Generation Pedigrees",
* "Value": "4",
* "order": 1,
* "inStock": false
* },
* {
* "Field": "Get Animal Aliases",
* "Value": "15",
* "order": 2,
* "inStock": false
* }

]