

Clinical Trials Bedrock API

Info

Description: Tool Function for the Bedrock Agent to call

Version: 1.0.0

Servers

Url: /

Paths

/search_trials

GET

Summary: GET /search_trials

Description: Search for clinical trials based on criteria

[Parameters]

name	in	description	type	required
lead_sponsor_name	query	Name of the lead sponsor organization, f. ex. Boehringer Ingelheim		
disease_area	query	Disease or condition being studied, f. ex. lung cancer		
overall_status	query	Current overall status of the study, f. ex. RECRUITING		
location_country	query	Country where the study is conducted, f. ex. United States		

[Responses]

code: 200

description: Successfully retrieved matching clinical trials

- application/json
 - type: array (\$schema: MinimalClinicalTrial)

Example Value

```
[
  {
    "nct_id" : string,
    "brief_title" : string
  }
]
```

code: 422

description: Validation Error

- application/json
 - \$schema: HTTPValidationError

Example Value

```
{
  "detail" : [
    {
      "loc" : [
      ],
      "type" : string
    }
  ]
}
```

code: 500

description: Internal server error occurred while searching trials

- application/json
 - type: array (\$schema: MinimalClinicalTrial)

Example Value

```
[
  {
    "nct_id" : string,
    "brief_title" : string
  }
]
```

/trial_details

GET

Summary: GET /trial_details

Description: Get detailed information for a specific clinical trial

[Parameters]

name	in	description	type	required
nct_id	query	The NCT ID of the trial, f. ex. NCT05888888	string	*

[Responses]

code: 200

description: Successfully retrieved trial details

- application/json
 - \$schema: ClinicalTrial

Example Value

```
{
  "nct_id" : string,
  "phase" : ,
  "org_study_id" : ,
  "status" : ,
  "condition" : ,
  "completion_date" : ,
  "enrollment_count" : ,
  "study_type" : ,
  "arm" : ,
  "drug" : ,
  "study_population" : ,
  "sponsor" : ,
  "collaborator" : ,
  "start_date" : ,
  "primary_measure" : ,
  "purpose" : ,
  "brief_title" :
}
```

code: 404

description: Trial not found

- application/json
 - \$schema: ClinicalTrial

Example Value

```
{
  "nct_id" : string,
  "phase" : ,
  "org_study_id" : ,
  "status" : ,
  "condition" : ,
  "completion_date" : ,
  "enrollment_count" : ,
  "study_type" : ,
  "arm" : ,
  "drug" : ,
  "study_population" : ,
  "sponsor" : ,
  "collaborator" : ,
  "start_date" : ,
  "primary_measure" : ,
  "purpose" : ,
  "brief_title" :
}
```

code: 422

description: Validation Error

- application/json
 - \$schema: HTTPValidationError

Example Value

```
{
  "detail" : [
    {
      "loc" : [
      ],
      "type" : string
    }
  ]
}
```

code: 500

description: Internal server error occurred while fetching trial details

- application/json
 - \$schema: ClinicalTrial

Example Value

```
{
  "nct_id" : string,
  "phase" : ,
  "org_study_id" : ,
  "status" : ,
  "condition" : ,
  "completion_date" : ,
  "enrollment_count" : ,
  "study_type" : ,
  "arm" : ,
  "drug" : ,
  "study_population" : ,
  "sponsor" : ,
  "collaborator" : ,
  "start_date" : ,
  "primary_measure" : ,
  "purpose" : ,
  "brief_title" :
}
```

/closest_trials

GET

Summary: GET /closest_trials

Description: Find trials closest to the user's location

[Parameters]

name	in	description	type	required
nct_ids	query	List of NCT IDs	array (string)	*
city	query	User's city		
state	query	User's state/province		
zip_code	query	User's ZIP/postal code		
country	query	User's country		
max_distance	query	Maximum distance in kilometers		

[Responses]

code: 200

description: Successfully found nearby trials

- application/json

- type: array (\$schema: NearbyTrial)

Example Value

```
[
  {
    "nct_id" : string,
    "distance_km" : number,
    "closest_location" : {
      "facility" : ,
      "status" : ,
      "city" : ,
      "state" : ,
      "zip" : ,
      "country" : ,
      "country_code" : ,
      "contacts" : ,
      "geo_point" :
    }
  }
]
```

code: 404

description: No trials found within the specified distance

- application/json
 - type: array (\$schema: NearbyTrial)

Example Value

```
[
  {
    "nct_id" : string,
    "distance_km" : number,
    "closest_location" : {
      "facility" : ,
      "status" : ,
      "city" : ,
      "state" : ,
      "zip" : ,
      "country" : ,
      "country_code" : ,
      "contacts" : ,
      "geo_point" :
    }
  }
]
```

code: 422

description: Validation Error

- application/json
 - \$schema: HTTPValidationError

Example Value

```
{
  "detail" : [
    {
      "loc" : [
      ],
      "type" : string
    }
  ]
}
```

code: 500

description: Internal server error occurred while finding closest trials

- application/json
 - type: array (\$schema: NearbyTrial)

Example Value

```
[
  {
    "nct_id" : string,
    "distance_km" : number,
    "closest_location" : {
      "facility" : ,
      "status" : ,
      "city" : ,
      "state" : ,
      "zip" : ,
      "country" : ,
      "country_code" : ,
      "contacts" : ,
      "geo_point" :
    }
  }
]
```

/inclusion_criteria

GET

Summary: GET /inclusion_criteria

Description: Get inclusion criteria for a clinical trial

[Parameters]

name	in	description	type	required
nct_id	query	The NCT ID of the trial, f. ex. NCT05888888	string	*

[Responses]

code: 200

description: Successfully retrieved inclusion criteria

- application/json

code: 404

description: Trial not found or no inclusion criteria available

- application/json

code: 422

description: Validation Error

- application/json
 - \$schema: HTTPValidationError

Example Value

```
{
  "detail" : [
    {
      "loc" : [
      ],
      "type" : string
    }
  ]
}
```

code: 500

description: Internal server error occurred while fetching inclusion criteria

- application/json

/exclusion_criteria

GET

Summary: GET /exclusion_criteria

Description: Get exclusion criteria for a clinical trial

[Parameters]

name	in	description	type	required
nct_id	query	The NCT ID of the trial, f. ex. NCT05888888	string	*

[Responses]

code: 200

description: Successfully retrieved exclusion criteria

- application/json

code: 404

description: Trial not found or no exclusion criteria available

- application/json

code: 422

description: Validation Error

- application/json
 - \$schema: HTTPValidationError

Example Value

```
{
  "detail" : [
    {
      "loc" : [
      ],
      "type" : string
    }
  ]
}
```

code: 500

description: Internal server error occurred while fetching exclusion criteria

- application/json

Components

Schemas

ClinicalTrial

nct_id

- string
 - *description: The NCT ID / ClinicalTrials.gov identifier of the trial*
 - *required: true*
 - *nullable: false*

phase

- *description: Phase of the clinical trial*
- *required: false*
- *nullable: true*

org_study_id

- *description: Organization's unique study identifier*
- *required: false*
- *nullable: true*

status

- *description: Current recruitment status*
- *required: false*
- *nullable: true*

condition

- *description: Conditions under study*
- *required: false*
- *nullable: true*

completion_date

- *description: Primary completion date*
- *required: false*
- *nullable: true*

enrollment_count

- *description: Number of participants enrolled*

- *required: false*
- *nullable: true*

study_type

- *description: Type of study*
- *required: false*
- *nullable: true*

arm

- *description: Study arm label*
- *required: false*
- *nullable: true*

drug

- *description: Intervention name*
- *required: false*
- *nullable: true*

study_population

- *description: Description of study population*
- *required: false*
- *nullable: true*

sponsor

- *description: Lead sponsor name*
- *required: false*
- *nullable: true*

collaborator

- *description: Study collaborators*
- *required: false*
- *nullable: true*

start_date

- *description: Study start date*
- *required: false*

- *nullable: true*

primary_measure

- *description: Primary outcome measure*
- *required: false*
- *nullable: true*

purpose

- *description: Primary purpose of the study*
- *required: false*
- *nullable: true*

brief_title

- *description: Brief title of the study*
- *required: false*
- *nullable: true*

HTTPValidationError

detail

- array [ValidationError]
- *required: false*
- *nullable: false*

Location

facility

- *description: Facility name*
- *required: false*
- *nullable: true*

status

- *description: Individual site recruitment status*
- *required: false*
- *nullable: true*

city

- *description: City*

- *required: false*
- *nullable: true*

state

- *description: State/Province*
- *required: false*
- *nullable: true*

zip

- *description: ZIP/Postal code*
- *required: false*
- *nullable: true*

country

- *description: Country*
- *required: false*
- *nullable: true*

country_code

- *description: ISO country code*
- *required: false*
- *nullable: true*

contacts

- *description: Facility contacts*
- *required: false*
- *nullable: true*

geo_point

- *description: Geographical coordinates*
- *required: false*
- *nullable: true*

LocationContact

name

- *description: Contact name and degree*

- *required: false*
- *nullable: true*

role

- *description: Contact role/investigator type*
- *required: false*
- *nullable: true*

phone

- *description: Contact phone number*
- *required: false*
- *nullable: true*

phone_ext

- *description: Phone extension*
- *required: false*
- *nullable: true*

email

- *description: Contact email*
- *required: false*
- *nullable: true*

MinimalClinicalTrial

nct_id

- string
 - *description: The NCT ID / ClinicalTrials.gov identifier of the trial*
 - *required: true*
 - *nullable: false*

brief_title

- string
 - *description: Brief title of the study*
 - *required: true*
 - *nullable: false*

NearbyTrial

nct_id

- string
 - *description: The NCT ID of the trial*
 - *required: true*
 - *nullable: false*

distance_km

- number
 - *description: Distance to the closest location in kilometers*
 - *required: true*
 - *nullable: false*

closest_location

- Location
 - *description: Details of the closest location*
 - *required: true*
 - *nullable: false*

ValidationError

loc

- *required: true*
- *nullable: false*

type

- string
 - *required: true*
 - *nullable: false*
-