Mérieux Foundation
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LabBook v3.6

API Manual

V2

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Mérieux Foundation
Fighting infectious diseases since 1967
www.fondation-merieux.org

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Foreword

This manual presents the LabBook elements accessible to a person with "Biologist" rights. If you cannot access any of the actions via your interface, please contact your administrator so that these rights can be assigned to you.

The LabBook API interface allows you to integrate and automate data exchanges between LabBook and other information systems (e.g., billing software, EHR, mobile application). This document explains how to configure access and use the main web services (endpoints) available.

The interface uses the OpenAPI (Swagger) standard, offering interactive documentation and the ability to test calls directly from a web browser.

URL for accessing the API interface: http(s)://<your-labbook-domain>/sigl/api

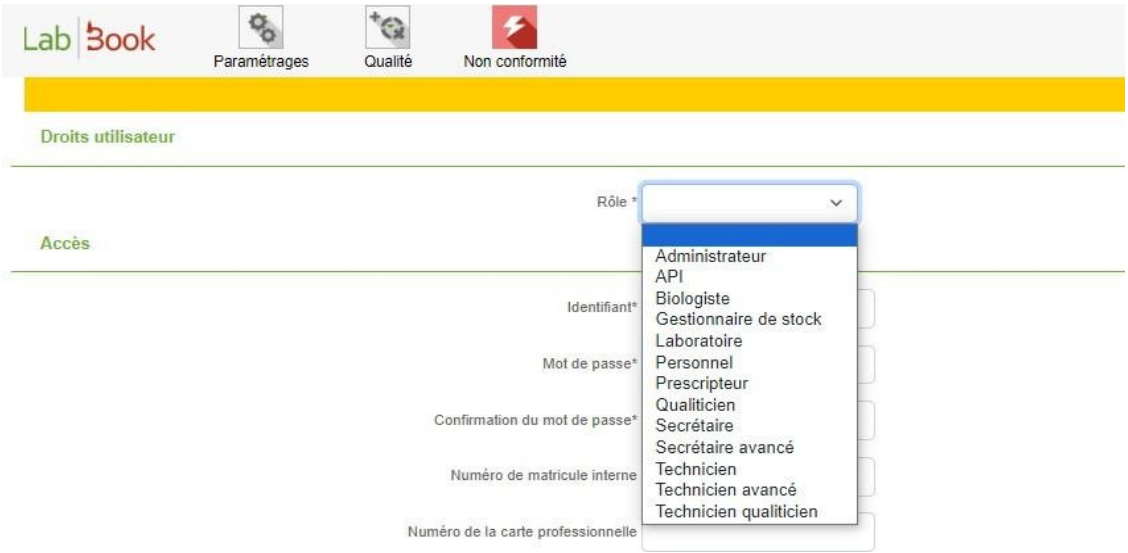
Prerequisites and authentication

Creating an API user

For security reasons, access to the API requires a dedicated account with the API role.

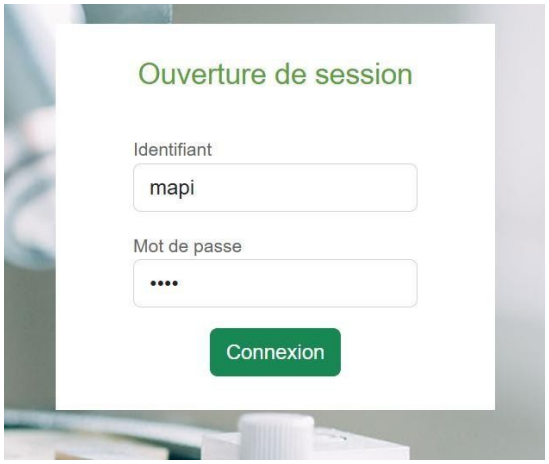
→ Log in to LabBook as an administrator (root). → Go to the Administration > User Management menu. → Create a new user or edit an existing user.

→ Assign them the API role and carefully note their username and password.



→ Log out of the root account.

→ Log in to LabBook with the user ID for the API role you created.



Authentication in the Swagger interface

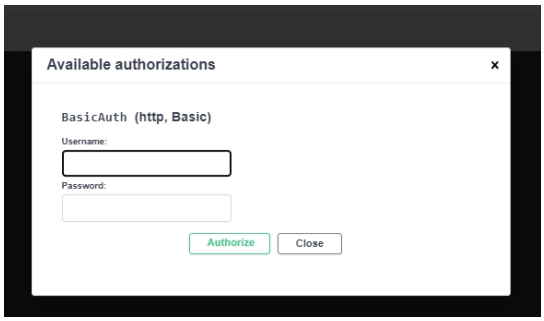
→ Go to the API interface URL.

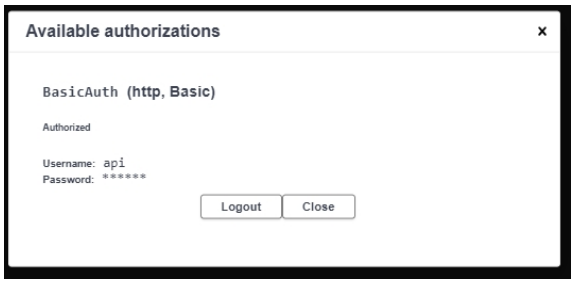
→ Click on the "Authorize" button (padlock at the top of the page).

→ In the modal window, enter the credentials of the API user you created.

→ Click "Authorize," then "Close."

→ Your session is now authenticated and you can test all endpoints.





Using Endpoints (Web Services)

Create a Record: POST /external/record/det/0

→ Logout: Allows you to exit the application by closing your account.

→ Edit user: Allows you to edit your profile information (username, first name, last name, etc.).

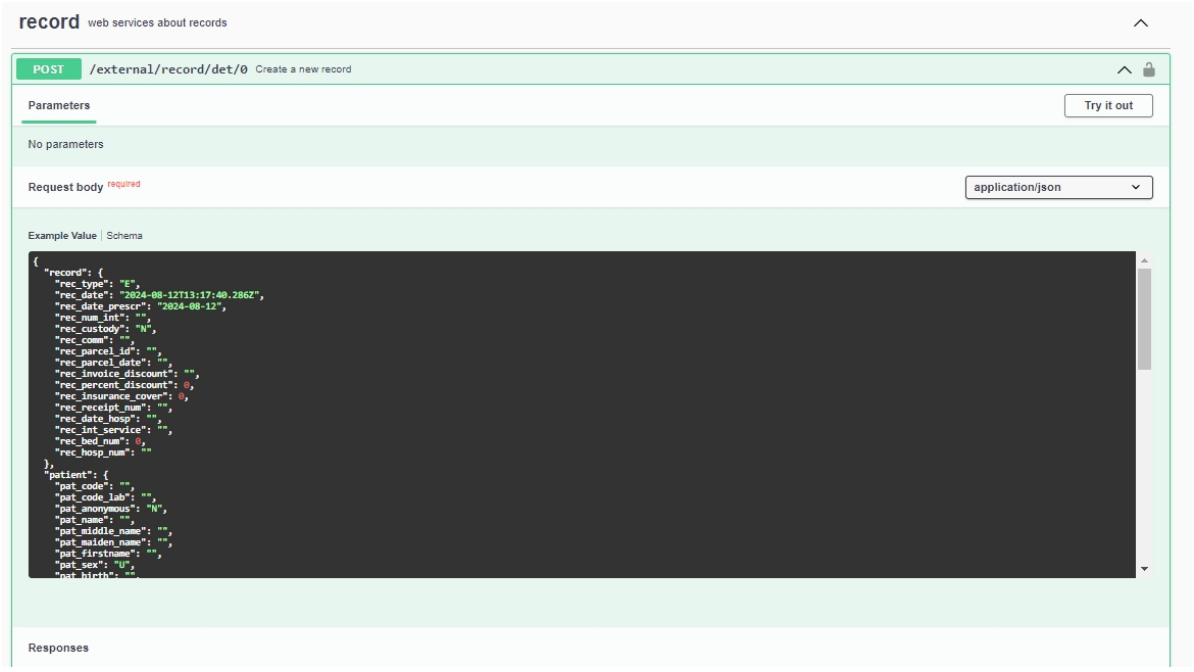
→ Edit password: Here you can change your password.

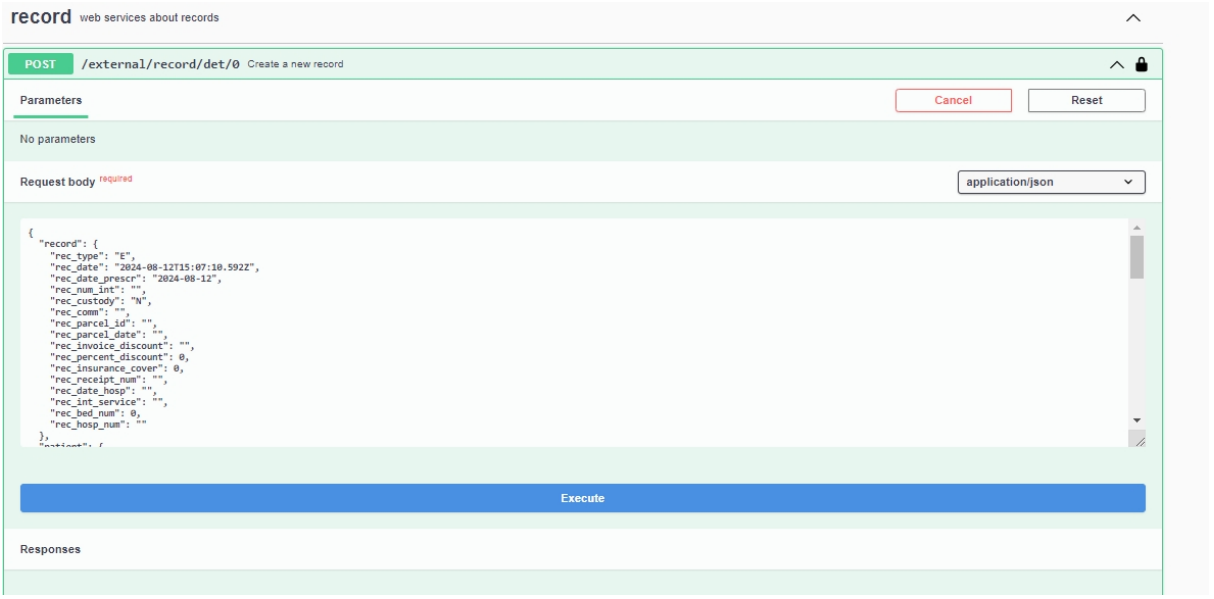
Objective: Add a new analysis request to LabBook from an external system. Procedure:

- In the Swagger interface, locate the record section and the POST endpoint /external/record/det/0.
- Click on "Try it out."
- A JSON editor will open. Fill in the request body with the appropriate structure. See the appendix for details on the fields.
- Click "Execute" to send the request.

Response

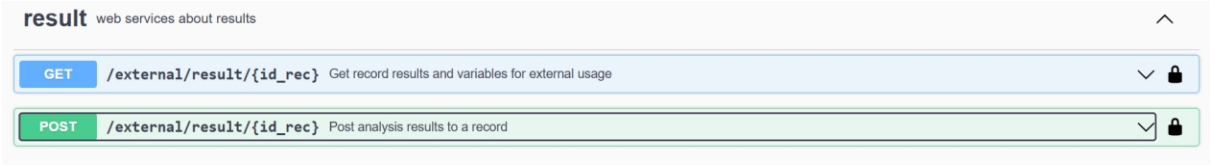
- Code 200/201: Success. The response will contain the unique ID of the created file.
- Code 4xx/5xx: Error. Check the response message to diagnose the problem (missing data, validation error, etc.).





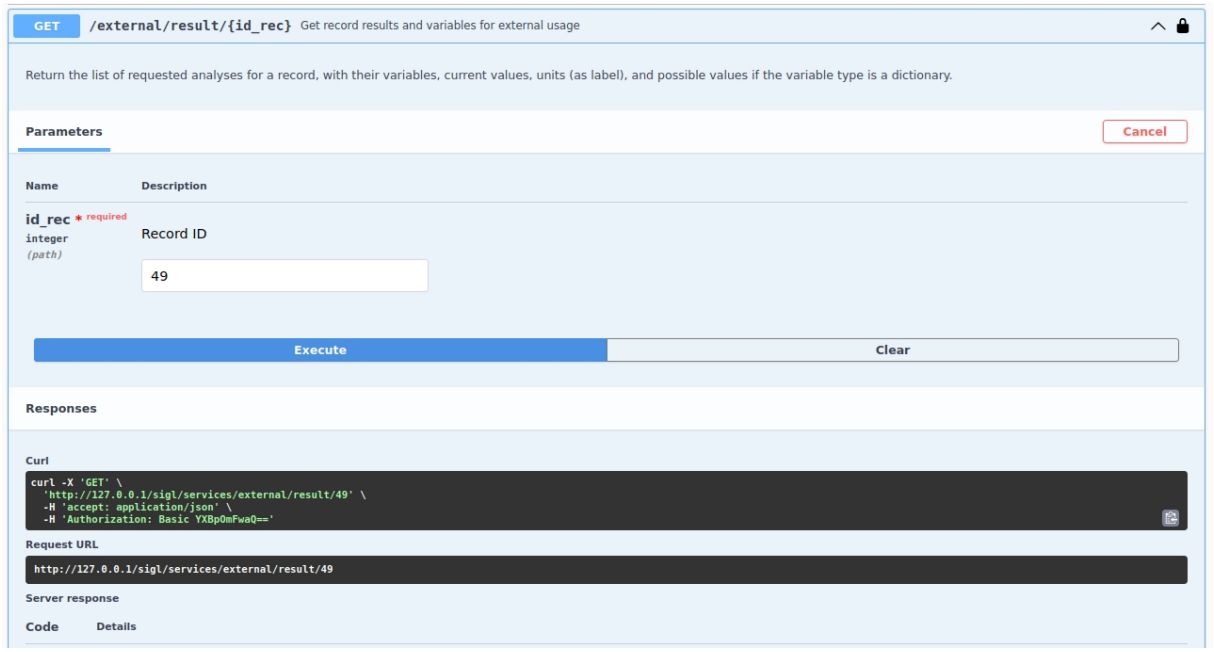
This

Retrieve or Post a Result: GET/POST /result

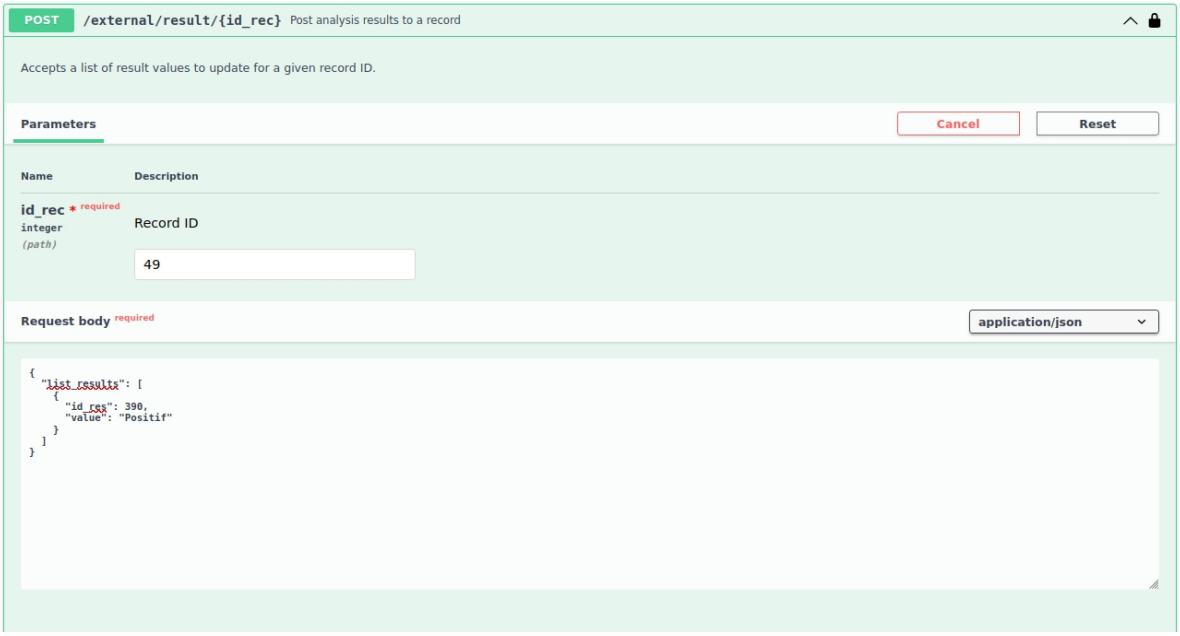


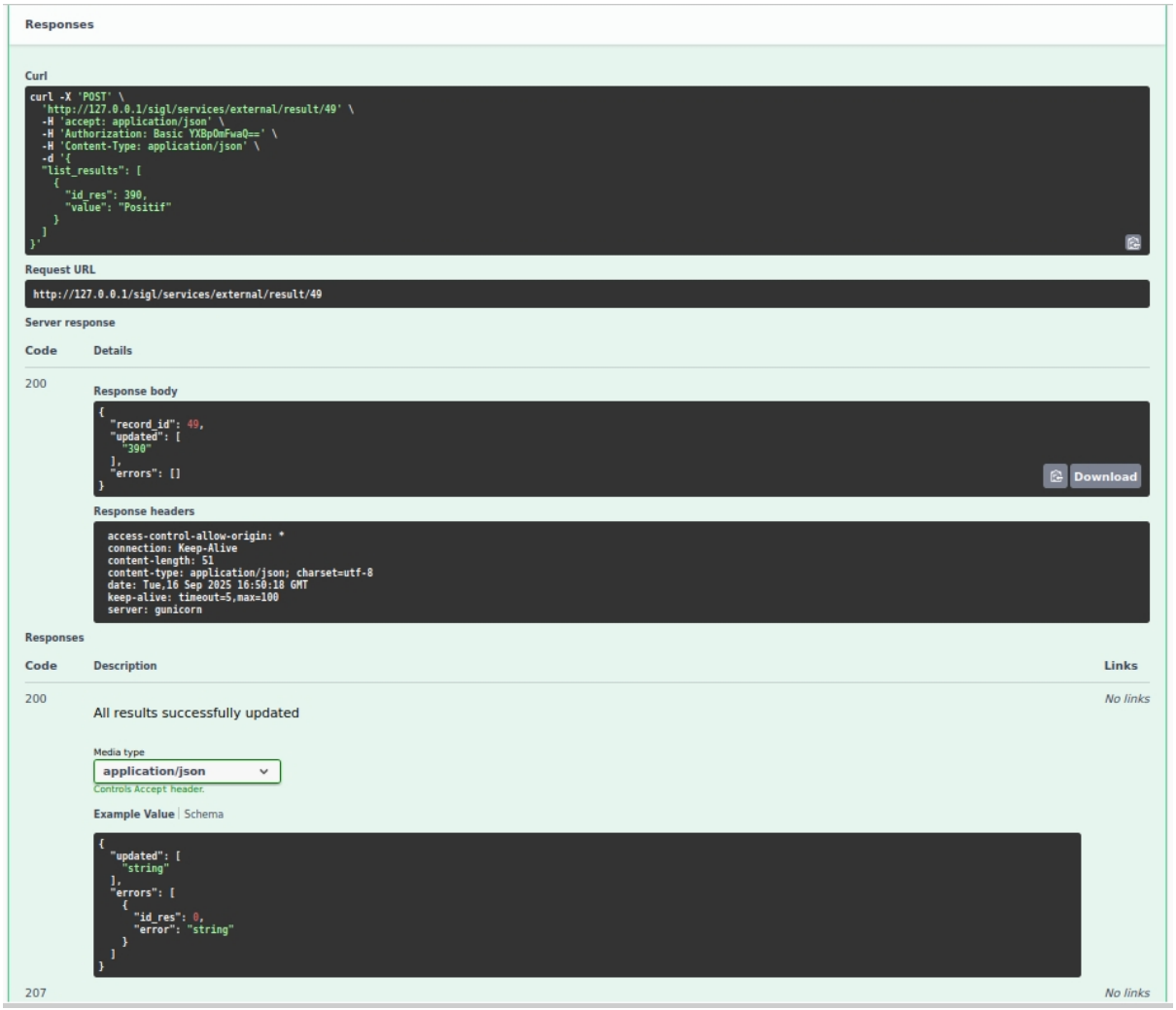
Procedure: Similar to creating a folder. Use "Try it out," enter the required parameters, and execute the request.

→ GET /result/{id}: Retrieve results from an existing folder.



POST /result: Enter or update a result for a given folder and analysis.


POST
/external/result/{id_rec}
Post analysis results to a record
Accepts a list of result values to update for a given record ID.
Parameters
Cancel
Reset
Name
Description
id_rec * required
integer
(path)
Record ID
49
Request body required
application/json
{
"list_results": [
{
"id_res": 390,
"value": "Positif"
}
]
}


Responses
Curl
curl -X 'POST' \
'http://127.0.0.1/sigl/services/external/result/49' \
-H 'accept: application/json' \
-H 'Authorization: Basic YXBpOmFwaQ==' \
-H 'Content-Type: application/json' \
-d '{
"list_results": [
{
"id_res": 390,
"value": "Positif"
}
]
}'
Request URL
http://127.0.0.1/sigl/services/external/result/49
Server response
Code
Details
200
Response body
{
"record_id": 49,
"updated": [
"390"
],
"errors": []
}
Download
Response headers
access-control-allow-origin: *
connection: Keep-Alive
content-length: 51
content-type: application/json; charset=utf-8
date: Tue,16 Sep 2025 16:50:18 GMT
keep-alive: timeout=5,max=100
server: gunicorn
Responses
Code
Description
Links
200
All results successfully updated
No links
Media type
application/json
Controls Accept header.
Example Value | Schema
{
"updated": [
"string"
],
"errors": [
{
"id_res": 0,
"error": "string"
}
]
}
207
No links

Appendix: Data Schemas

Object: record (Folder)

Champ	Type	Obligatoire	Valeur par défaut	Description	Valeurs possibles
rec_type	string	**Oui**	"E"	Type d'enregistrement	"E" (Externe), "I" (Interne)
rec_date	string($date-time)	**Oui**	-	Date/heure de réception	Format: YYYY-MM-DD HH:MM:SS
rec_date_prescr	string($date)	**Oui**	-	Date de prescription	Format: YYYY-MM-DD
rec_num_int	string	Non	""	Numéro interne du laboratoire	-
rec_custody	string	Non	"N"	Demande de conservation	"Y" (Oui), "N" (Non)
rec_comm	string	Non	""	Commentaires sur le dossier	-
rec_parcel_id	string	Non	""	Identifiant du colis	-
rec_parcel_date	string($date-time)	Non	-	Date/heure de réception du colis	Format: YYYY-MM-DD HH:MM:SS
rec_invoice_discount	string	Non	""	Type de remise sur facturation	"S" (Staff), "E" (Exemption), "O" (Other)
rec_percent_discount	number($double)	Non	0	Pourcentage de remise	Minimum: 0
rec_insurance_cover	number($double)	Non	0	Couverture assurance santé	Minimum: 0
rec_receipt_num	string	Non	""	Numéro de reçu de facture	-
rec_date_hosp	string($date)	Non	-	Date d'admission	Format: YYYY-MM-DD
rec_int_service	string	Non	""	Service demandeur	-
rec_bed_num	integer	Non	0	Numéro de lit	-
rec_hosp_num	string	Non	""	Identification hospitalière	-

Object: patient

Champ	Type	Obligatoire	Valeur par défaut	Description	Valeurs possibles
pat_code	string	Non	""	Code LabBook unique	-
pat_code_lab	string	Non	""	Code laboratoire	-
pat_anonymous	string	Non	"N"	Patient anonyme	"Y" (Oui), "N" (Non)
pat_name	string	Non	""	Nom du patient	-
pat_middle_name	string	Non	""	Deuxième nom	-
pat_maiden_name	string	Non	""	Nom de jeune fille	-
pat_firstname	string	Non	""	Prénom	-
pat_sex	string	Non	"U"	Genre	"M" (Male), "F" (Female), "U" (Unknown)
pat_birth	string($date)	Non	-	Date de naissance	Format: YYYY-MM-DD
pat_date_approx	string	Non	"N"	Date approximative	"Y" (Oui), "N" (Non)
pat_age	integer	Non	0	Âge	-
pat_age_unit	string	Non	"Y"	Unité d'âge	"D" (Day), "W" (Week), "M" (Month), "Y" (Year)
pat_address	string	Non	""	Adresse	-
pat_pbox	string	Non	""	Boîte postale	-
pat_area	string	Non	""	Zone/Région	-
pat_zipcode	string	Non	""	Code postal	-
pat_city	string	Non	""	Ville	-
pat_phone1	string	Non	""	Téléphone 1	-
pat_phone2	string	Non	""	Téléphone 2	-
pat_job	string	Non	""	Profession	-
pat_nationality	string	Non	""	Code nationalité	-
pat_resident	string	Non	"Y"	Résident	"Y" (Oui), "N" (Non)
pat_blood_group	string	Non	""	Groupe sanguin	-
pat_blood_rhesus	string	Non	""	Rhésus sanguin	-

Object: prescriber (Prescriber)

Champ	Type	Obligatoire	Valeur par défaut	Description	Valeurs possibles
prescr_code	string	Non	""	Code prescripteur	-
prescr_title	string	Non	""	Titre	"MA", "SI", "MI", "DO", "PR"
prescr_name	string	Non	""	Nom	-
prescr_firstname	string	Non	""	Prénom	-
prescr_initial	string	Non	""	Initiales	-
prescr_workplace	string	Non	""	Lieu de travail	-
prescr_service	string	Non	""	Service	-
prescr_address	string	Non	""	Adresse	-
prescr_zipcode	string	Non	""	Code postal	-
prescr_city	string	Non	""	Ville	-
prescr_spe	string	Non	""	Spécialité	34 valeurs possibles (ALL, ANDR, ANAT, etc.)
prescr_phone	string	Non	""	Téléphone fixe	-
prescr_mobile	string	Non	""	Téléphone mobile	-
prescr_fax	string	Non	""	Fax	-
prescr_email	string	Non	""	Email	-

Array: ana_list (List of analyses)

Champ	Type	Obligatoire	Valeur par défaut	Description	Valeurs possibles
ana_code	string	**Oui**	""	Code analyse	Ex: "B001"
ana_loinc	string	Non	""	Code LOINC	Ex: "14933-6"
ana_emer	string	Non	"N"	Urgence	"Y" (Oui), "N" (Non)
ana_req	string	Non	"Y"	Analyse demandée	"Y" (Oui), "N" (Non)
ana_out	string	Non	"N"	Externalisée	"Y" (Oui), "N" (Non)

Array: samp_list (List of samples)

Champ	Type	Obligatoire	Valeur par défaut	Description	Valeurs possibles
samp_ana	string	Non	""	Code analyse	Ex: "B001"
samp_date	string($date-time)	Non	-	Date/heure prélèvement	Format: YYYY-MM-DD HH:MM:SS
samp_date_receipt	string($date-time)	Non	-	Date/heure réception	Format: YYYY-MM-DD HH:MM:SS
samp_type	string	Non	""	Type d'échantillon	21 valeurs (APF, APFL, BAL, BIO, etc.)
samp_status	string	Non	"T"	Statut	"D" (Done), "T" (To do), "P" (Provided)
samp_code	string	Non	""	Code échantillon	-
samp_name	string	Non	""	Nom du préleveur	-
samp_comm	string	Non	""	Commentaire	-

Example of JSON schema (record)


```
{
  "record": {
    "rec_type": "E",
    "rec_date": "2025-09-17T13:49:05.843Z",
    "rec_date_prescr": "2025-09-17",
    "rec_num_int": "LAB-20",
    "rec_custody": "N",
    "rec_comm": "",
    "rec_parcel_id": "",
    "rec_parcel_date": "",
    "rec_invoice_discount": "",
    "rec_percent_discount": 0,
    "rec_insurance_cover": 0,
    "rec_receipt_num": "",
    "rec_date_hosp": "",
    "rec_int_service": "Urgences",
    "rec_bed_num": 7,
    "rec_hosp_num": ""
  },
  "patient": {
    "pat_code": "",
    "pat_code_lab": "PAT-001",
    "pat_anonymous": "N",
    "pat_name": "nameTest",
    "pat_middle_name": "",
    "pat_maiden_name": "",
    "pat_firstname": "firstNameTest",
    "pat_sex": "M",
    "pat_birth": "",
    "pat_date_approx": "N",
    "pat_age": 40,
    "pat_age_unit": "Y",
    "pat_address": "Adress Test",
    "pat_pbox": "",
    "pat_area": "",
    "pat_zipcode": "",
    "pat_city": "",
```

```
  "pat_phone1": "770110120",
  "pat_phone2": "",
  "pat_job": "",
  "pat_nationality": "",
  "pat_resident": "Y",
  "pat_blood_group": "",
  "pat_blood_rhesus": ""
 },
 "prescriber": {
  "prescr_code": "PR10",
  "prescr_title": "DO",
  "prescr_name": "SALAM",
  "prescr_firstname": "Abdou",
  "prescr_initial": "AS",
  "prescr_workplace": "",
```

```
   "prescr_service": "",
   "prescr_address": "",
   "prescr_zipcode": "",
   "prescr_city": "",
   "prescr_spe": "GEN",
   "prescr_phone": "",
   "prescr_mobile": "",
   "prescr_fax": "",
   "prescr_email": ""
  },
  "ana_list": [
   {
    "ana_code": "B001",
    "ana_loinc": "",
    "ana_emer": "N",
    "ana_req": "Y",
    "ana_out": "N"
   }
  ],
```

```
"samp_list": [
  {
    "samp_ana": "B001",
    "samp_date": "",
    "samp_date_receipt": "",
    "samp_type": "BLD",
    "samp_status": "T",
    "samp_code": "",
    "samp_name": "",
    "samp_comm": ""
  }
 ]
}
```

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