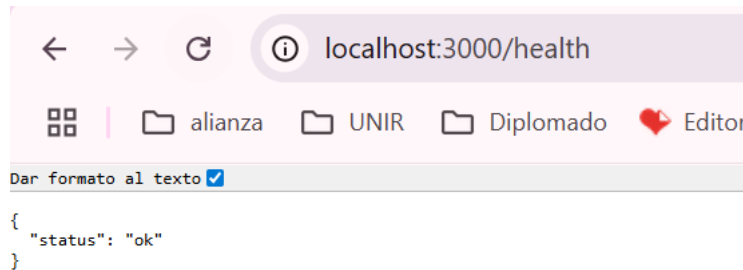


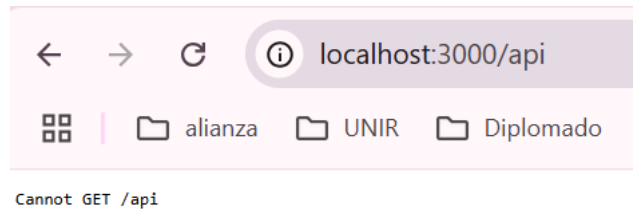
## Pruebas Backend

Se dejan evidencias de pruebas unitarias y de la API en navegador, en Swagger y con Jest

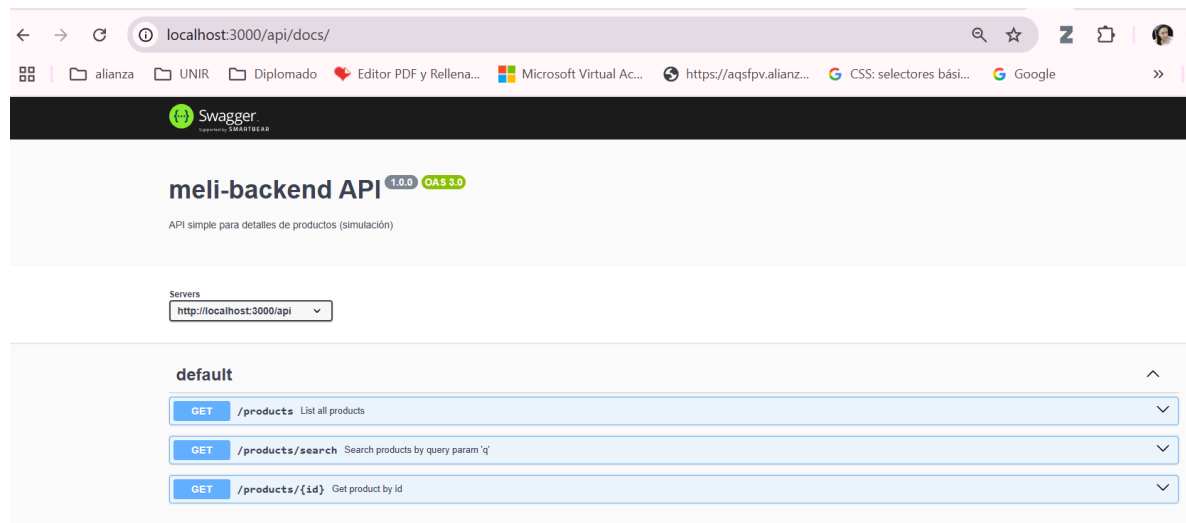
Health: <http://localhost:3000/health>



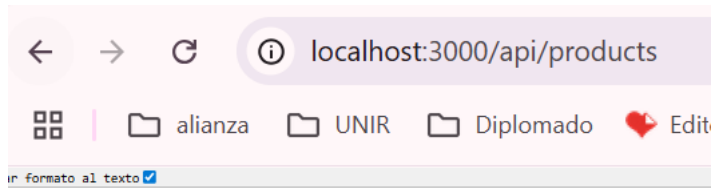
API base: <http://localhost:3000/api>



Swagger docs: <http://localhost:3000/api/docs>

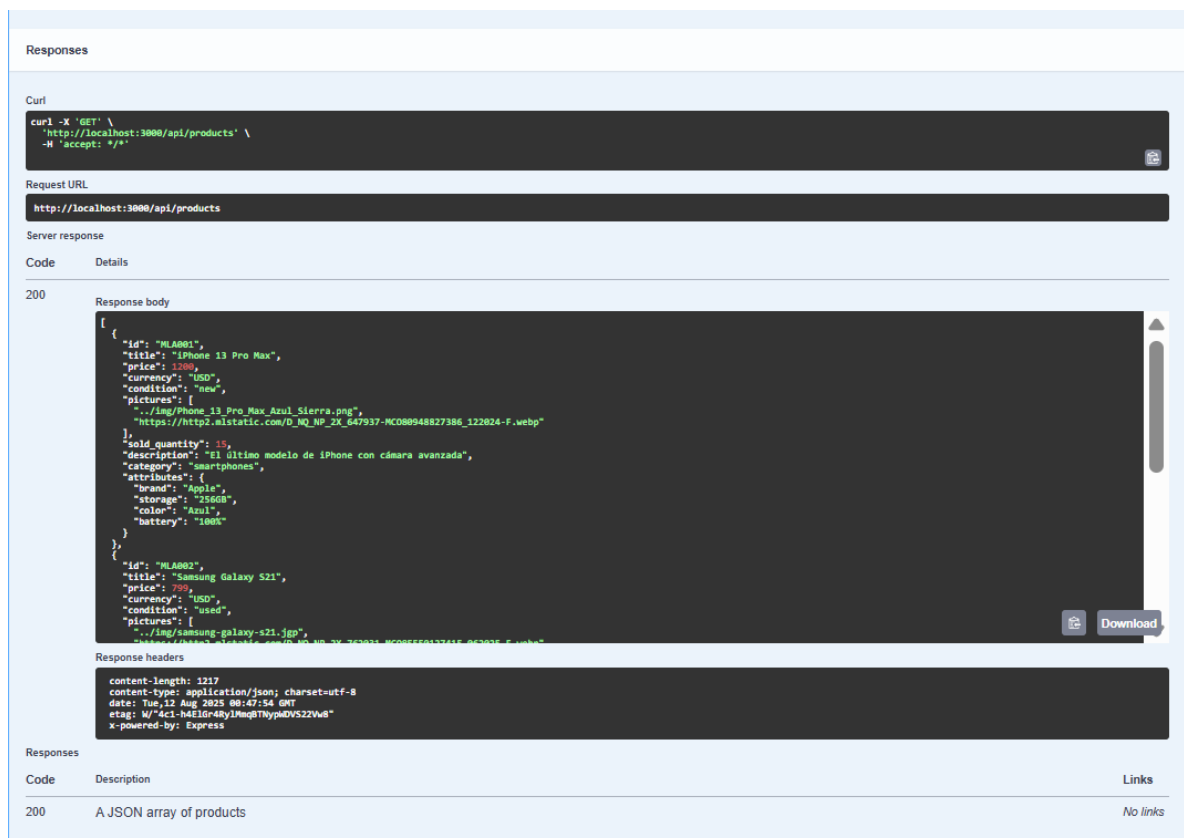
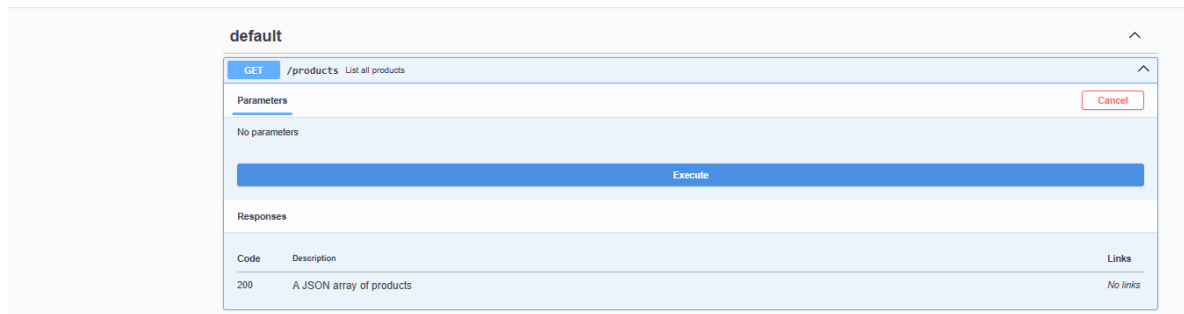
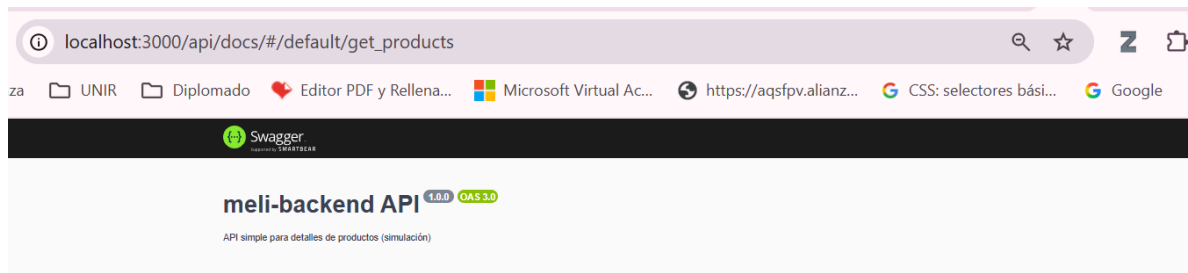


**GET /api/products - lista todos los productos**



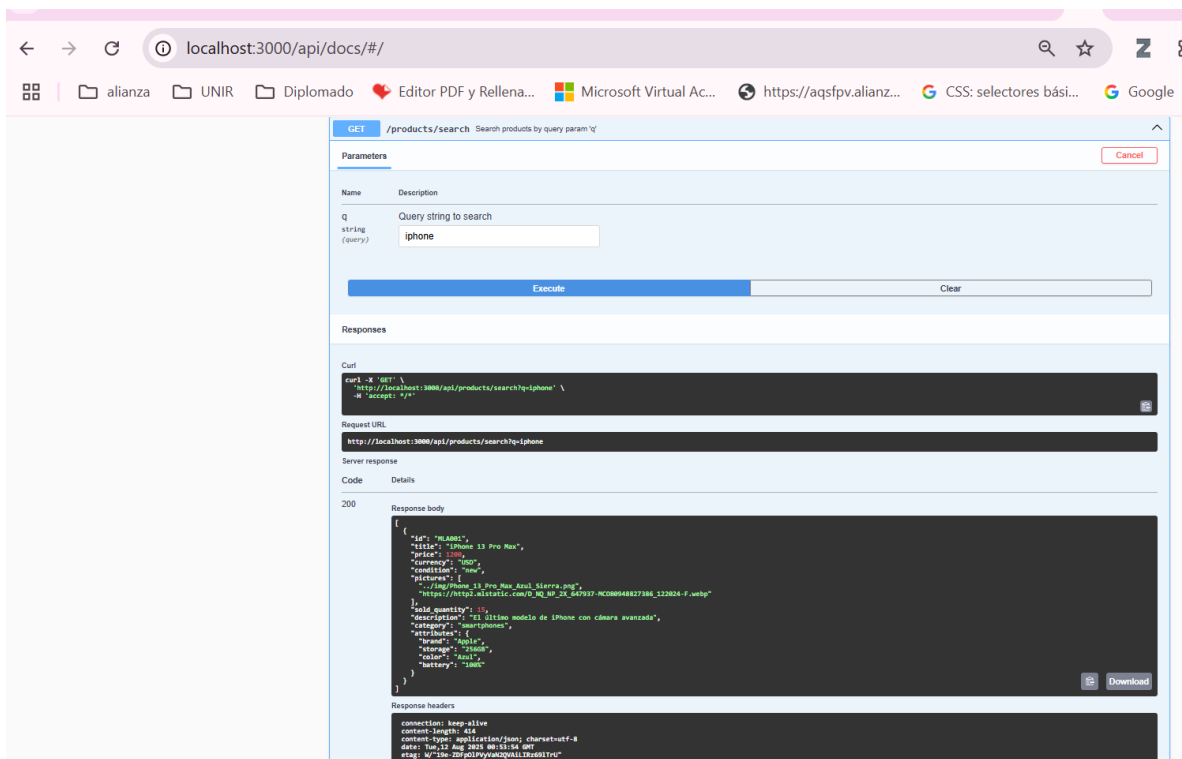
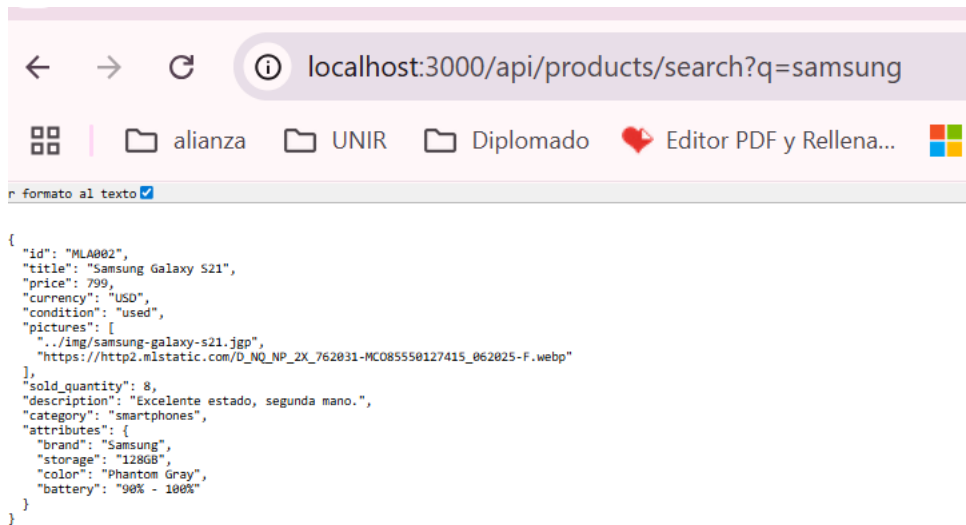
```
{
  "id": "MLA001",
  "title": "iPhone 13 Pro Max",
  "price": 1200,
  "currency": "USD",
  "condition": "new",
  "pictures": [
    "img/Phone_13_Pro_Max_Azul_Sierra.png",
    "https://http2.mlstatic.com/D_NQ_NP_2X_647937-MC080948827386_122024-F.webp"
  ],
  "sold_quantity": 15,
  "description": "El último modelo de iPhone con cámara avanzada",
  "category": "smartphones",
  "attributes": {
    "brand": "Apple",
    "storage": "256GB",
    "color": "Azul",
    "battery": "100%"
  }
},
{
  "id": "MLA002",
  "title": "Samsung Galaxy S21",
  "price": 799,
  "currency": "USD",
  "condition": "used",
  "pictures": [
    "img/samsung-galaxy-s21.jpg",
    "https://http2.mlstatic.com/D_NQ_NP_2X_762031-MC085550127415_062025-F.webp"
  ],
  "sold_quantity": 8,
  "description": "Excelente estado, segunda mano.",
  "category": "smartphones",
  "attributes": {
    "brand": "Samsung",
    "storage": "128GB",
    "color": "Phantom Gray",
    "battery": "90% - 100%"
  }
},
{
  "id": "MLA003",
  "title": "Teléfono Inteligente Android S23",
  "price": 120,
  "currency": "USD",
  "condition": "used",
  "pictures": [
    "https://http2.mlstatic.com/D_NQ_NP_2X_618680-CB781041296942_122024-F.webp"
  ],
  "sold_quantity": 6,
  "description": "Excelente estado, segunda mano. Pantalla extra grande 6\"",
  "category": "smartphones",
  "attributes": {
    "brand": "Generic",
    "storage": "16GB",
    "color": "Gold",
    "battery": "90% - 100%"
  }
}
```

## Prueba en Swagger



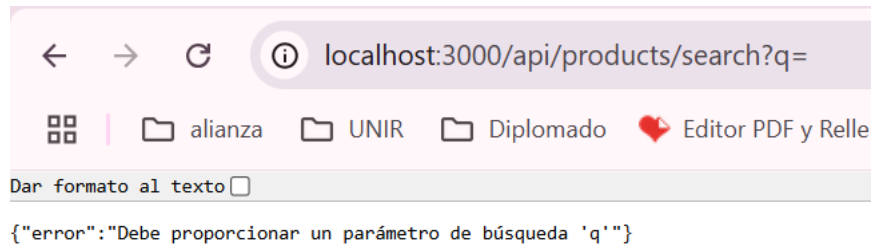
[Ver response](#)

GET /api/products/search?q=iphone - busca productos por texto



## Manejo de Errores

## CODIGO 400



Name	Description
q	Query string to search
string	
(query)	<input type="text" value="q"/>

ExecuteClear

### Responses

Curl

```
curl -X 'GET' \
  'http://localhost:3000/api/products/search' \
  -H 'accept: */*'
```

Request URL

```
http://localhost:3000/api/products/search
```

Server response

Code	Details
400	Error: Bad Request
undocumented	

Response body

```
{
  "error": "Debe proporcionar un parámetro de búsqueda 'q'"
}
```

Response headers

```
connection: keep-alive
content-length: 60
content-type: application/json; charset=utf-8
date: Tue, 12 Aug 2025 00:57:37 GMT
etag: W/"3c-Qy11wSpMkvoYNbZ7FdcvE0N2PVU"
keep-alive: timeout=5
x-powered-by: Express
```

## Codigo 404

Name	Description
q string (query)	Query string to search <input type="text" value="dsdd"/>

[Execute](#) [Clear](#)

### Responses

**Curl**

```
curl -X 'GET' \
  http://localhost:3000/api/products/search?q=dsdd' \
  -H 'accept: */*'
```

**Request URL**

```
http://localhost:3000/api/products/search?q=dsdd
```

**Server response**

Code	Details
404 <i>undocumented</i>	<p>Error: Not Found</p> <p><b>Response body</b></p> <pre>{   "error": "No se encontró producto con el nombre o categoría que contenga: dsdd" }</pre> <p><a href="#">Download</a></p> <p><b>Response headers</b></p> <pre>connection: keep-alive content-length: 82 content-type: application/json; charset=utf-8 date: Tue, 12 Aug 2025 00:59:10 GMT etag: W/"52-xQ6zWUcoIwJYju2Ny#0kYzTGLs" keep-alive: timeout=5 x-powered-by: Express</pre>

## GET /api/products/:id - obtiene detalle por id

← → ↺ ⓘ localhost:3000/api/products/MLA001

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Dar formato al texto ☒

```
{
  "id": "MLA001",
  "title": "iPhone 13 Pro Max",
  "price": 1200,
  "currency": "USD",
  "condition": "new",
  "pictures": [
    "../img/Phone_13_Pro_Max_Azul_Sierra.png",
    "https://http2.mlstatic.com/D_NQ_NP_2X_647937-MC080948827386_122024-F.webp"
  ],
  "sold_quantity": 15,
  "description": "El último modelo de iPhone con cámara avanzada",
  "category": "smartphones",
  "attributes": {
    "brand": "Apple",
    "storage": "256GB",
    "color": "Azul",
    "battery": "100%"
  }
}
```

## Prueba en Swagger

GET /products/{id} Get product by id

Parameters

Cancel

Name	Description
id <span>required</span>	
string (path)	MLA003

Execute Clear

Responses

Curl

```
curl -X GET \
  "http://localhost:3000/api/products/MLA003" \
  -H "accept: */*"
```

Request URL

http://localhost:3000/api/products/MLA003

Server response

Code	Details
200	<p>Response body</p> <pre>{   "id": "MLA003",   "title": "Teléfono Inteligente Android 5.2\"",   "price": 220,   "currency": "USD",   "condition": "used",   "pictures": [     "https://http2.alstatic.com/D_MQ_MP_2X_E135580-CH71041295042_3228326-F.webp"   ],   "sold_quantity": 4,   "description": "Ejeculente estado, segunda mano. Pantalla extra grande 5\"",   "category": "smartphones",   "attributes": {     "brand": "Samsui",     "storage": "16GB",     "color": "Gold",     "battery": "3000 - 3000L"   } }</pre> <p>Response headers</p> <pre>content-length: 400 content-type: application/json; charset=utf-8 date: Tue, 12 Aug 2025 01:02:16 GMT etag: W/"198-70C69W6A02A4n2g6U022y8m" x-powered-by: Express</pre>

Responses

Code	Description	Links
200	Product object	No links
404	Product not found	No links

[Ver response](#)

## Manejo de Errores

### Código 404

← → ↺ ⓘ localhost:3000/api/products/MLA005

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Dar formato al texto ☐

```
{"error": "Producto no encontrado"}
```

GET

/products/{id}

Get product by id

⌵

Parameters

Cancel

Name	Description
id * required	
string	
(path)	

MLA004

ExecuteClear

Responses

Curl

```
curl -X 'GET' \
  'http://localhost:3000/api/products/MLA004' \
  -H 'accept: */*'

```

Request URL

http://localhost:3000/api/products/MLA004

Server response

Code	Details
404	Error: Not Found

Response body

```
{
  "error": "Producto no encontrado"
}
```

Download

Response headers

```
connection: keep-alive
content-length: 34
content-type: application/json; charset=utf-8
date: Tue, 12 Aug 2025 01:07:40 GMT
etag: W/"22-D0TSy0uWka0FCElVotS8nmw2dVs"
keep-alive: timeout=5
x-powered-by: Express

```

Responses

Code	Description	Links
200	Product object	No links
404	Product not found	No links

tests/ - pruebas con Jest



```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  AZURE
PS C:\Users\linaduarte\Documents\prueba MELI\meli-backend> npm test

> meli-backend@1.0.0 test
> jest --runInBand

console.log
  meli-backend listening on port 3000

    at Server.log (src/app.js:34:11)

GET /api/products 200 4.382 ms - 1217
GET /api/products/MLA001 200 0.922 ms - 412
GET /api/products/NOEXIST 404 1.038 ms - 34
GET /api/products/search?q=iphone 200 1.307 ms - 414
PASS tests/product.test.js
  Products API
    ✓ GET /api/products should return list (71 ms)
    ✓ GET /api/products/MLA001 should return a product (12 ms)
    ✓ GET /api/products/unknown returns 404 (7 ms)
    ✓ GET /api/products/search?q=iphone returns results (11 ms)

Test Suites: 1 passed, 1 total
Tests:      4 passed, 4 total
Snapshots:  0 total
Time:       1.869 s, estimated 2 s
Ran all test suites.

```

### Registro Ejemplo del LOG local de la ejecución

```

> meli-backend@1.0.0 start
> node src/app.js

meli-backend listening on port 3000
GET /health 304 9.338 ms - -
GET /health 304 0.779 ms - -
GET /api 404 2.280 ms - 142
GET /api 404 0.453 ms - 142
GET /api/docs/ 304 4.780 ms - -
GET /api/docs/swagger-ui.css 304 2.701 ms - -
GET /api/docs/swagger-ui-init.js 200 0.370 ms - 3176
GET /api/docs/swagger-ui-bundle.js 304 6.946 ms - -
GET /api/docs/swagger-ui-standalone-preset.js 304 8.424 ms - -
GET /api/products 304 5.520 ms - -
GET /api/products/search?q=MLA001 404 1.402 ms - 84
GET /api/products/search?q=iphone 304 0.834 ms - -
GET /api/products/search?q=generic 404 9.106 ms - 85
GET /api/products/search?q=andro 200 1.015 ms - 402
GET /api/products/search 400 0.867 ms - 60
GET /api/products/MLA001 304 3.596 ms - -
GET /api/products/MLA005 404 0.946 ms - 34
GET /api/products/MLA004 404 0.936 ms - 34
GET /api/products/MLA002 304 0.968 ms - -

```