Introduction

The public CEIRS Reagents webpage is a searchable and filterable catalog of over 5,000 unique, influenza-specific reagents developed and tested by CEIRS investigators. You can search by reagent type, narrow search results by strain, vector, segment, mutations, publication status, and availability in BEI, and request reagents directly from the Reagents webpage. In this User Guide, we’ll provide an overview of the Reagents webpage layout and features, review ways to refine your search, and cover how to request a reagent.

Additionally, there is an External Reagents webpage containing a catalog of external reagents from different suppliers. These reagents are listed for informational purposes only and are not endorsed by NIAID or the CEIRS Network.

Overview

Accessing the Reagents webpage

To access the CEIRS Reagents webpage, go to http://www.niaidceirs.org, and select Reagents under the Resources menu.

The External Reagents page is also available under the Resources menu.
1. The Reagents catalog is displayed in a table and can be viewed by reagent type: Plasmid, Protein, Antibody, Virus Isolate, RG Virus, Ferret Tissue, and Cell.

2. The green number at the top of the table will display how many reagents are available for the selected category.

3. The filters on the left of the reagents table allow you to narrow your search results by strain, vector, segment, mutations, availability in BEI, and published status.
   - The **Your selections** section highlights what filters have been applied.

4. To clear a selection, click the “x” next to the filter and/or search term selected.

5. The search box allows you to search by key words or numbers such as strain name, gene name, human disease term, BEI number, CEIRS Center, sample identifier, or contributing institution. The selection of reagents will narrow down as you type in key words.

6. The Page size drop-down menu allows you to choose whether you would like to view 5, 10, or 20 reagents at a time.

7. The table allows you to sort columns by fields based on the reagent type such as Reagent Name, Strain, Vector, Segment, and Mutations.

8. The green + icon allows you to expand the row and view additional product information such as Publication PMID, Center Name, Reagent Owner, BEI Number, and Comments.
   - The red – icon allows you to hide this information and return to the normal view.

9. The request button prompts you to complete a request form and provide your contact information.
10. At the bottom of the page the pagination features allows you to move to the first page, previous page, a specific page number, to the next page, or the last page.

11. The bottom of the page also displays tables of abbreviations for Antibody Type, Purification, Passage History, and Sample Material.

<table>
<thead>
<tr>
<th>Antibody Type Abbreviations</th>
<th>Purification Abbreviations</th>
<th>Passage History Abbreviations</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAB  Monoclonal antibody</td>
<td>TIG  Total Immunoglobulins</td>
<td>E   Embryonated chicken eggs</td>
</tr>
<tr>
<td>PAB  Polyclonal antibody</td>
<td>IGA  Immunoglobulin A</td>
<td>C   MDCK cells</td>
</tr>
<tr>
<td>ATS  Antiserum</td>
<td>IGG  Immunoglobulin G</td>
<td>S   MDCK-SIAT cells</td>
</tr>
<tr>
<td>HAS  Hyperimmune antiserum</td>
<td>IGM  Immunoglobulin M</td>
<td>M   Monkey Kidney Cells</td>
</tr>
<tr>
<td>U    Unknown</td>
<td>IGY  Immunoglobulin Y</td>
<td></td>
</tr>
<tr>
<td>NA   Not Applicable</td>
<td>NA   Not Applicable</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sample Material Abbreviations</th>
<th>Sample Material Abbreviations Cont.</th>
<th>Sample Material Abbreviations Cont.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR  Air</td>
<td>LUN  Lungs</td>
<td>SER  Serum</td>
</tr>
<tr>
<td>AEC  Alveolar Epithelial Cells</td>
<td>NAL  Nasal lavage</td>
<td>SLU  Slurry</td>
</tr>
<tr>
<td>BAL  Bronchoalveolar lavage</td>
<td>NAS  Nasal swab</td>
<td>SPC  Soft Palate Cells</td>
</tr>
<tr>
<td>BLO  Blood</td>
<td>NEC  Nasal Epithelial Cells</td>
<td>SOI  Soil</td>
</tr>
<tr>
<td>CCF  Combined cloacal and fical</td>
<td>NTS  Combined nasal throat swab</td>
<td>SPU  Sputum</td>
</tr>
<tr>
<td>CCO  Combined cloacal and oral-pharyngeal</td>
<td>ORP  Oral-pharyngeal</td>
<td>TEC  Tracheal Epithelial Cells</td>
</tr>
<tr>
<td>CCT  Combined cloacal and tracheal</td>
<td>OTH  Other, append free text to describe</td>
<td>TFB  Tissue from brain</td>
</tr>
<tr>
<td>CLO  Cloacal</td>
<td>OTT  Other tissue</td>
<td>TFH  Tissue from heart</td>
</tr>
<tr>
<td>FEC  Feces</td>
<td></td>
<td>TFL  Tissue from liver</td>
</tr>
<tr>
<td>FIB  Fibroblast Cells</td>
<td></td>
<td>TFS  Tissue from spleen</td>
</tr>
<tr>
<td>LLF  Lung lavage fluid</td>
<td></td>
<td>TFT  Tissue from trachea</td>
</tr>
</tbody>
</table>

**Refining Your Search**

There are several ways to refine your search results; such as by reagent type and by selecting different filter categories such as strain, vector, segment, mutations, publication status, and availability in BEI. Below are tips for refining your search and two examples searches.

- **Searching by strain name, key words, or numbers**
  - When typing your search term in the search field, a list of possible entries will appear after 3 characters are entered.
  - Text string searches are not case sensitive.
  - Terms entered in the search box are searched against the filters that appear on the left (under Narrow Results) and the additional product information that appears in the expand/hide section for each row in the table.
• **Narrowing your selection**
  - Selecting filters on the left will allow further refinement of the returned list.
  - You can select a filter and then use keywords to narrow the results. Note that the search will only be against the existing results.

• **Further refining your selection**
  - After conducting a search, any subsequent search without clearing previous filters/terms will be performed against the existing search results, not the entire database.
  - Existing search terms can be individually removed by clicking the “x” near each search term. You can also remove filters by unselecting them in the Narrow Results menu.

**Example Search 1: All H1 swine isolates available**

**Step 1:** Select the **Virus Isolate** tab under Reagent Type.

- **Reagent Type**
  - Plasmid
  - Protein
  - Antibody
  - **Virus Isolate**
  - RG Virus
  - Ferret Tissue
  - Cell

  **5783 items found**

The total number of items found for any selections you make can be found under the tabs in green font.

**Step 2:** Under Narrow Results, look for Host under the Strain filter and select **swine**.

- **Narrow Results**
  - Strain
  - Influenza Type
  - Host
    - Shorebird (27)
    - Slaty-backed Gull (1)
    - **Snow Goose (3)**
    - Spot-billed Duck (8)
    - Surf Scoter (5)
    - **Swine (1695)**
    - Tern (2)
    - Turkey (18)
  - Origin

The number in the parenthesis next to the filter option indicates the total number of items available, so for swine, there are 1695 reagents available.
Step 3: Enter H1N in the search box to refine your selection.

The top of the results table shows the total number of items found, with the selection criteria and search options used. After searching for H1N, we have narrowed our search down to 711 reagents.

The results are tabulated in a descending alphanumerical order for items that appear in the first column (Reagent Name).

**Example Search 2: Hyperimmune antisera available for H7N9 strain**

Step 1: Select the Antibody tab under Reagent Type.

After selecting the Antibody reagent type we see that 369 reagents are available.
Step 2: Under Narrow Results, look for the Antibody Type filter and select **ATS** for antiserum and **HAS** for hyperimmune antiserum. Note that tables of abbreviations for Antibody Type, Purification, Passage History, and Sample Material are at the bottom of the Reagents webpage.

The number in the parenthesis next to each filter option indicates the total number of reagents available. Here we see that there are 49 ATS items and 249 HAS items available.

Step 3: Enter H7N9 in the search box to refine your selection.

Based on the selection criteria and after searching for H7N9, we have now narrowed our search down to 18 reagents.

Our results are now tabulated in a descending alphanumerical order by the Strain column. Additionally, you can click the green + icon (which will then turn red) to view additional information about each reagent.
Requesting a Reagent

Once you’ve found a reagent of interest, simply click the blue **Request** button.

<table>
<thead>
<tr>
<th>Reagent Name</th>
<th>Strain</th>
<th>Antibody Type</th>
<th>Specificity</th>
<th>Produced In</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>F.2018-53</td>
<td>A/human/Guangdong/175F003/2016 (H7N9)</td>
<td>HAS</td>
<td>H7N9</td>
<td>Ferret</td>
<td>HAI</td>
</tr>
</tbody>
</table>

This will prompt you to complete a request form and provide Requester Information (your contact information), Organization/Laboratory Information, Shipping Address, and Intended Use of Materials. Click the blue **Submit** button.

After completing the request form, you will receive a confirmation email and the contributing lab will contact you with more details as to how to obtain the reagent. This process can take about 2-4 business days.

* If you have any questions regarding the CEIRS Reagents webpage, please contact the DPCC Help Desk at support@niaidceirs.org or 1-855-846-2697.