**D04:** Find drugs by ingredient

This query is designed to extract all drugs that contain a specified ingredient. The query accepts an ingredient concept ID as the input and returns all drugs that have the ingredient. It should be noted that the query returns both generics that have a single ingredient (i.e. the specified ingredient) and those that are combinations which include the specified ingredient.  
The query requires the ingredient concept ID as the input. A list of these ingredient concepts can be extracted by querying the concept table for concept class of ‘Ingredient’, e.g. using query [D02](http://vocabqueries.omop.org/drug-queries/d2).

**Sample query:**

SELECT

A.concept\_id Ingredient\_concept\_id,

A.concept\_Name Ingredient\_name,

A.concept\_Code Ingredient\_concept\_code,

A.concept\_Class\_id Ingredient\_concept\_class,

D.concept\_id Drug\_concept\_id,

D.concept\_Name Drug\_name,

D.concept\_Code Drug\_concept\_code,

D.concept\_Class\_id Drug\_concept\_class

FROM

full\_201706\_omop\_v5.concept\_ancestor CA,

full\_201706\_omop\_v5.concept A,

full\_201706\_omop\_v5.concept D

WHERE

CA.ancestor\_concept\_id = A.concept\_id

AND CA.descendant\_concept\_id = D.concept\_id

AND sysdate BETWEEN A.valid\_start\_date AND A.valid\_end\_date

AND sysdate BETWEEN D.valid\_start\_date AND D.valid\_end\_date

AND CA.ancestor\_concept\_id = 966991;

**Input:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Example** | **Mandatory** | **Notes** |
| Ingredient Concept ID | 966991 | Yes | Concept ID for ‘Simethicone’.  Ingredient concepts can be extracted from CONCEPT table as records of concept class of ‘Ingredient’ |
| As of date | Sysdate | No | Valid record as of specific date. Current date – sysdate is a default |

**Output:**

|  |  |
| --- | --- |
| **Field** | **Description** |
| Ingredient\_Concept\_ID | Concept ID of the ingredient entered as input |
| Ingredient\_name | Name of the ingredient |
| Ingredient\_Concept\_code | Concept code of the ingredient |
| Ingredient\_Concept\_class | Concept Class of the ingredient |
| Generic\_Concept\_ID | Concept ID of drug with the ingredient |
| Generic\_Name | Name of drug concept with the ingredient |
| Generic\_Concept\_Code | Concept code of the drug with the ingredient |
| Generic\_Concept\_Class | Concept class of drug with the ingredient |

**Sample output record:**

|  |  |
| --- | --- |
| **Field** | **Value** |
| Ingredient\_Concept\_ID | 966991 |
| Ingredient\_name | Simethicone |
| Ingredient\_Concept\_code | 9796 |
| Ingredient\_Concept\_class | Ingredient |
| Generic\_Concept\_ID | 967306 |
| Generic\_Name | Simethicone 10 MG/ML Oral Solution |
| Generic\_Concept\_Code | 251293 |
| Generic\_Concept\_Class | Clinical Drug |