**D05:** Find generic drugs by ingredient

This query is designed to extract all generic drugs that have a specified ingredient. The query accepts an ingredient concept ID as the input and returns all generic (not branded) 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’

**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 Generic\_concept\_id,

D.concept\_Name Generic\_name,

D.concept\_Code Generic\_concept\_code,

D.concept\_class\_id Generic\_concept\_class

FROM concept\_ancestor CA,

concept A,

concept D

WHERE

CA.ancestor\_concept\_id = 966991

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

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

AND D.concept\_class\_id = 'Clinical Drug'

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

**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 |