

DO NOT SCAN THIS DOCUMENT INTO IFW
SUBJECT MATTER ELIGIBILITY WORKSHEET
Nature-Based Products

This worksheet can be used to assist in analyzing a claim for “Subject Matter Eligibility” (SME) under 35 U.S.C. 101 for any judicial exception (law of nature, natural phenomenon, or abstract idea) in accordance with the [2014 Interim Eligibility Guidance](#) and the [July 2015 Update on Subject Matter Eligibility](#). As every claim must be examined individually based on the particular elements recited therein, a separate worksheet should be used to analyze each claim. The use of this worksheet is optional.

This worksheet can be used to analyze any claim, but includes specific information designed to address aspects of the eligibility analysis (such as the markedly different characteristics analysis) that apply only to claims directed to nature-based products. This worksheet will be used to walk through several of the [May 2016 product of nature examples](#) published on the website. (A blank generic worksheet is available on the training website.) It is suggested that the worksheet be used with the [2014 Interim Eligibility Guidance Quick Reference Sheet](#), which include an overview of the analysis, along with the flowchart and form paragraphs referenced herein, the [July 2015 Update: Interim Eligibility Guidance Quick Reference Sheet](#) that includes a chart of abstract idea concepts, and the [Subject Matter Eligibility Court Decisions chart](#).

Worksheet Summary: Section I is designed to address the first activity in examination, which is to determine what applicant invented and to construe the claim in accordance with its broadest reasonable interpretation (BRI). Next, referring to the eligibility flowchart reproduced in the *Quick Reference Sheet*, Section II addresses *Step 1* regarding the four statutory categories of invention. Section III addresses *Step 2A* by determining whether the claim is directed to a judicial exception. Section IV addresses *Step 2B* by identifying additional elements to determine if the claim amounts to significantly more than an exception.

Application/Example No. and claim: _____

I. What did applicant invent?

Review the disclosure to identify what applicant considers as the invention. (MPEP 2103(I))

Applicant invented:

Establish the broadest reasonable interpretation (BRI) of the claim.

DO NOT SCAN THIS DOCUMENT INTO IFW
SUBJECT MATTER ELIGIBILITY WORKSHEET
Nature-Based Products

II. Does the claimed invention fall within one of the four statutory categories of invention (process, machine, manufacture or composition of matter) (Step 1)?

Choose A or B:

A. Yes, the claimed invention is a _____.

Continue with the SME analysis.

B. No, the claimed invention is not one of the four statutory categories. Make a rejection of the claim as being drawn to non-statutory subject matter. *Use Form Paragraphs 7.05 and 7.05.01 available in Custom OACs.*

If the claim could be amended to fall within one of the statutory categories, it is recommended to **continue with the SME analysis** under that assumption. Make the assumption clear in the record if a rejection is ultimately made under *Step 2*, and consider suggesting a potential amendment to applicant that would result in the claim being drawn to a statutory category.

If no amendment is possible, **conclude the SME analysis** and continue with examination under each of the other patentability requirements.

III. Is the claim directed to a product of nature, a law of nature, a natural phenomenon, or an abstract idea (judicially recognized exceptions) (Step 2A)?

A claim is “directed” to a product of nature exception when the claim recites (*i.e.*, **sets forth** or **describes**) a nature-based product limitation that does not exhibit markedly different characteristics from its naturally occurring counterpart in its natural state. Although a nature-based product can be claimed by itself (*e.g.*, “a *Lactobacillus* bacterium”) or as one or more limitations of a claim (*e.g.*, “a probiotic composition comprising a mixture of *Lactobacillus* and milk in a container”), the markedly different characteristics analysis should be applied only to the nature-based product limitations in the claim to determine whether the nature-based products are “product of nature” exceptions. Non-limiting examples of the types of characteristics considered by the courts when determining whether there is a marked difference include: biological or pharmacological functions or activities; chemical and physical properties; phenotype, including functional and structural characteristics; and structure and form, whether chemical, genetic or physical.

Note that a process claim is not subject to the markedly different analysis for nature-based products used in the process, except in the limited situation where a process claim is drafted in such a way that there is no difference in substance from a product claim (*e.g.*, “a method of providing an apple.”).

Even if a claim is not “directed” to a product of nature, it may be “directed” to a different exception, for example when a law of nature, natural phenomenon, or abstract idea is recited (*i.e.*, **set forth** or **described**) in the claim. For this analysis, it is sufficient to identify that the claimed concept aligns with at least one judicial exception, as there are no bright lines between the types of exceptions. Laws of nature and natural phenomena, as identified by the courts, include naturally occurring principles or substances. Abstract ideas have been

DO NOT SCAN THIS DOCUMENT INTO IFW
SUBJECT MATTER ELIGIBILITY WORKSHEET
Nature-Based Products

identified by the courts by way of example, including fundamental economic practices, certain methods of organizing human activity, ideas themselves (standing alone), or mathematical relationships/formulae.

Assistance in identifying judicial exceptions can be obtained by referring to the [case law chart](#) available on the website and the court case discussions in the 2014 Interim Eligibility Guidance.

Choose A, B, or C:

- A. No, the claim does not recite a nature-based product limitation, or a concept that is similar to those found by the courts to be an exception. **Conclude SME analysis** and continue with examination under each of the other patentability requirements. If needed, the record can be clarified by providing remarks in the Office action regarding interpretation of the claim (*for example*: the broadest reasonable interpretation of the claim is not directed to an abstract idea or nature-based product.)
- B. Yes, but the streamlined analysis is appropriate as eligibility is self-evident, and a full eligibility analysis is not needed. Applicant's claimed invention, explained in Section I above, is not focused on an exception, and the claim clearly does not attempt to tie up an exception such that others cannot practice it. (Refer to the [February 2015 Training Slides](#) for information and examples of a streamlined analysis.) **Conclude SME analysis** and continue with examination under each of the other patentability requirements.
- C. Yes, the claim is directed to a nature-based product limitation, and/or a concept that is similar to those found by the courts to be an exception. *Proceed to 1 and 2.*
1. If the claim is directed to a nature-based product limitation, identify the limitation(s) in the claim that recite(s) the nature-based product and explain whether or not the claimed nature-based product exhibits markedly different characteristics compared to its naturally occurring counterpart in its natural state. *Complete all of (a), (b) and (c).* If the claim is not directed to a nature-based product limitation, proceed to Question 2.

(a) The limitation(s) in the claim that set(s) forth or describe(s) a nature-based product is (are):

(b) The closest naturally occurring counterpart in its natural state is to the claimed nature-based product limitation is:

DO NOT SCAN THIS DOCUMENT INTO IFW
SUBJECT MATTER ELIGIBILITY WORKSHEET
Nature-Based Products

(c) Compare the claimed nature-based product limitation to its counterpart to determine whether it does or does not exhibit markedly different characteristics as compared to the counterpart in its natural state. Based on the comparison, *choose (i) or (ii)*.

(i) The nature-based product exhibits markedly different characteristics (and thus is not a product of nature exception) because:

(ii) The nature-based product lacks markedly different characteristics (and thus is a product of nature exception) because:

Proceed to Question 2, to determine if the claim is “directed” to another type of exception.

2. If the claim is directed to an abstract idea, law of nature, and/or natural phenomenon, identify the limitation(s) in the claim that recite(s) the exception and explain why the recited subject matter is an exception.

The limitation(s) in the claim that set(s) forth or describe(s) the law of nature, natural phenomenon, or abstract idea is (are):

The reason(s) that the limitation(s) are considered a judicial exception is (are):

If the results of Questions 1 and 2 is that the claim is not directed to any judicial exception, conclude SME analysis and continue with examination under each of the other patentability requirements. If needed, the record can be clarified by providing remarks in the Office action regarding interpretation of the claim (*for example*: the

DO NOT SCAN THIS DOCUMENT INTO IFW
SUBJECT MATTER ELIGIBILITY WORKSHEET
Nature-Based Products

broadest reasonable interpretation of the claim is directed to a nature-based product that exhibits markedly different characteristics from its natural counterparts).

Otherwise, the claim is directed to at least one judicial exception. Continue with the SME analysis.

IV. Does the claim as a whole amount to significantly more than the judicial exception, i.e., the product of nature, law of nature, natural phenomenon, or abstract idea (Step 2B)?

- A. Are there any additional elements (features/limitations/step) recited in the claim beyond the exception(s) identified above? Note that if the claim is directed to a product of nature comprising a combination of component elements that do not occur together in nature as claimed, each component element should be considered as an additional element to the other components to determine whether their combination results in significantly more.

Choose 1 or 2:

1. No, there are no other elements in the claim in addition to the exception. **Conclude SME analysis** by making a § 101 rejection and continue with examination under each of the other patentability requirements. *Use Form Paragraphs 7.05 and 7.05.015 available in Custom OACs.*

Are there elements in the disclosure that could be added to the claim that may make it eligible? Identify those elements and consider suggesting them to applicant:

2. Yes, the claim elements (features/limitations/steps) in addition to the exception are:

Continue with the SME analysis.

- B. Evaluate the significance of the additional elements. Identifying additional elements and evaluating their significance involves the search for an “inventive concept” in the claim. It can be helpful to keep in mind what applicant invented (identified in Section I above) and how that relates to the additional elements to evaluate their significance.

Consider the identified additional elements individually and in combination to determine whether the claim as a whole amounts to significantly more than the exception(s) identified above. Reasons supporting the significance of the additional elements can include one or more of the following:

DO NOT SCAN THIS DOCUMENT INTO IFW
SUBJECT MATTER ELIGIBILITY WORKSHEET
Nature-Based Products

- improves another technology or technical field
- improves the functioning of a computer itself
- applies the exception with, or by use of, a particular machine
 - *not* a generic computer performing generic computer functions
 - *not* adding the words “apply it” or words equivalent to “apply the exception”
 - *not* mere instructions to implement an abstract idea on a computer
- effects a transformation or reduction of a particular article to a different state or thing
- adds a specific limitation other than what is well-understood, routine and conventional in the field
 - *not* appending well-understood, routine, and conventional activities previously known to the industry, specified at a high level of generality
 - *not* a generic computer performing generic computer functions
- adds unconventional steps that confine the claim to a particular useful application
 - *not* adding insignificant extrasolution activity, such as mere data gathering
- adds meaningful limitations that amount to more than generally linking the use of the exception to a particular technological environment

Complete (1) or (2) below:

1. Yes, the additional elements, taken individually or as a combination, result in the claim amounting to significantly more than the exception(s) because

If any elements, individually or as a combination, amount to the claim reciting significantly more than the exception(s), **conclude SME analysis** and continue with examination under each of the other patentability requirements. If needed, the record can be clarified by providing remarks in the Office action regarding interpretation of the claim (*for example*: the claim recites the product of nature “x”, but amounts to significantly more than the product of nature itself with the additional element “y” because “abc”).

2. No, the additional elements, taken individually and as a combination, do not result in the claim amounting to significantly more than the exception(s) because

DO NOT SCAN THIS DOCUMENT INTO IFW
SUBJECT MATTER ELIGIBILITY WORKSHEET
Nature-Based Products

If no elements, taken individually and as a combination, amount to the claim reciting significantly more than the exception(s), **conclude the SME analysis** by making a § 101 rejection and continue with examination under each of the other patentability requirements. *Use Form Paragraphs 7.05 and 7.05.015 available in Custom OACs.*

Are there elements in the disclosure that could be added to the claim that may make it eligible? Identify those elements and consider suggesting them to applicant:

Sample Rejection:

Use Form Paragraphs 7.05 and 7.05.015

Claim __ is rejected under 35 U.S.C. 101 because the claimed invention is directed to a judicial exception (i.e., a law of nature, a natural phenomenon, or an abstract idea) without significantly more. Claim __ is directed to

The claim does not include additional elements that are sufficient to amount to significantly more than the judicial exception because
