Knowledge grows

YaraVita Tankmix Service Demo

YaraVita Tankmix Service Facts

- The original Tankmix website launched in 1997 – before Google!
- App launched in 2011 with 9 languages
- Two more languages added in 2015
- In last 10 years more than 15,000 mixes have been tested, with over 1,000 in 2022 alone
- UK biggest users with over 43,000 searches in last 10 years

- Free of charge service
- Mixes done on a daily basis so please use it ☺

17:20 Thu 23 Feb

100%

AA

tankmix.com

Tankmix is a service outlining the mixability of YaraVita™ products with many plant protection products.

Access is freely available to everyone, and allows for better planning of spray programmes and spraying opportunities with most of the YaraVita™ range. Each tank mix test is carried out under controlled conditions in our product development laboratories following BS EN ISO 9001:2000 guidelines and represents a fair measure of the performance of each mixture made. Of course, there are many variables in making tank mixes under field conditions that can influence the mixability of any mixture made and so the Tankmix is just a guide and not a guarantee of either physical or biological compatibility.

New! Enhanced Services for Seed Coatings

Yara products applied as seed coatings have proved to be a important way of enhancing the value of seeds. Due to the surge of interest, we have added the seed treatment product development process to this website. It is now quick and easy to get a potential seed coating developed and tested. Find out more

Show/Hide Introduction

Tankmix Request Form

Name

Email

Company

Request Date
23 Feb 2023

Country
United Kingdom

Crop

Comments

Ideal Mixing Order
1. Water Conditioners or anti-foam (if needed)

17:20 Thu 23 Feb 100%
tankmix.com

Ideal Mixing Order
1. Water Conditioners or anti-foam (if needed)
2. Solid Micronutrients
3. Solid crop protection products (eg wettable granules, solid granules, wettable powder)
4. Water based crop protection products (eg suspension concentrates, capsule suspensions)
5. Suspension concentrates / liquid micronutrients
6. Solvent based crop protection products (eg suspo emulsions, emulsion in water, oil dispersal, emulsion concentrates)
7. Adjuvants (if needed)

Order of Addition 1

YaraVita Product or agrochemical
YaraVita Product or agrochemical

Application Rate

Litres

Order of Addition 2

YaraVita Product or agrochemical
YaraVita Product or agrochemical

Application Rate

Litres

Water Rate

lt/Ha

Add Ingredient

Reasonable Request:

We do not charge any fees for the Tankmix laboratory analysis. The service is free of charge. We expect that at least one YaraVita product is included in the mix; if no YaraVita product is included

Tank Mix Procedure

Requests are received via Tankmix.com or the TankmixIT App

Name: Linda Chilton
Company: Yara
Country: UK
Email: Linda.chilton@yara.com

- **Rates are scaled down to carry out the test in 100ml water**
- **The mix is shaken and left to stand for 1 hour**
- **A visual assessment of the mix is made, and the result described as :**
  - **C – Physically compatible Tank mix**
  - **CA – Tank mixable with agitation**
  - **NC – Non-Compatible Tank mix**
- **A report is written and emailed to the customer**
- **Where products requested are not available, or where only an active ingredient has been requested, the most suitable product available is used and noted on the report.**

Tank Mix Request

QSF 0405E Issue No 09
Yara UK Ltd
The Industrial Estate
Pocklington
York YO42 1DN
Tel: (01759) 302545
Fax: (01759) 303650

Please ensure that application rates and water rates are included with your request
Read the notes at the bottom of page before acting on tank mix test results

Name:	Phil Burrell		**Date:**		24/05/2021
Company:	Yara UK		**Yara contact:**		Linda Chilton

Test No.	Yara Product or Pesticide	Order of Addition	Application Rate	Water Rate	Test Results
1	YaraVita Croplift Pro	1	2.5kg/Ha	150L/Ha	CA
	Revystar XE	2	1L/Ha		
	YaraVita Bortrac	3	0.5L/Ha		

Tank mix compatible with continuous agitation using suspension concentrate product

Water Rate: **200 lt/ha**

YaraVita Mantrac Pro: **1.0 lt/ha**

YaraVita Last N: **5.0 lt/ha**

Non-Compatible Tank mix using a suspension concentrate product

Water Rate: **200 lt/ha**

YaraVita Mantrac Pro: **1.0 lt/ha**

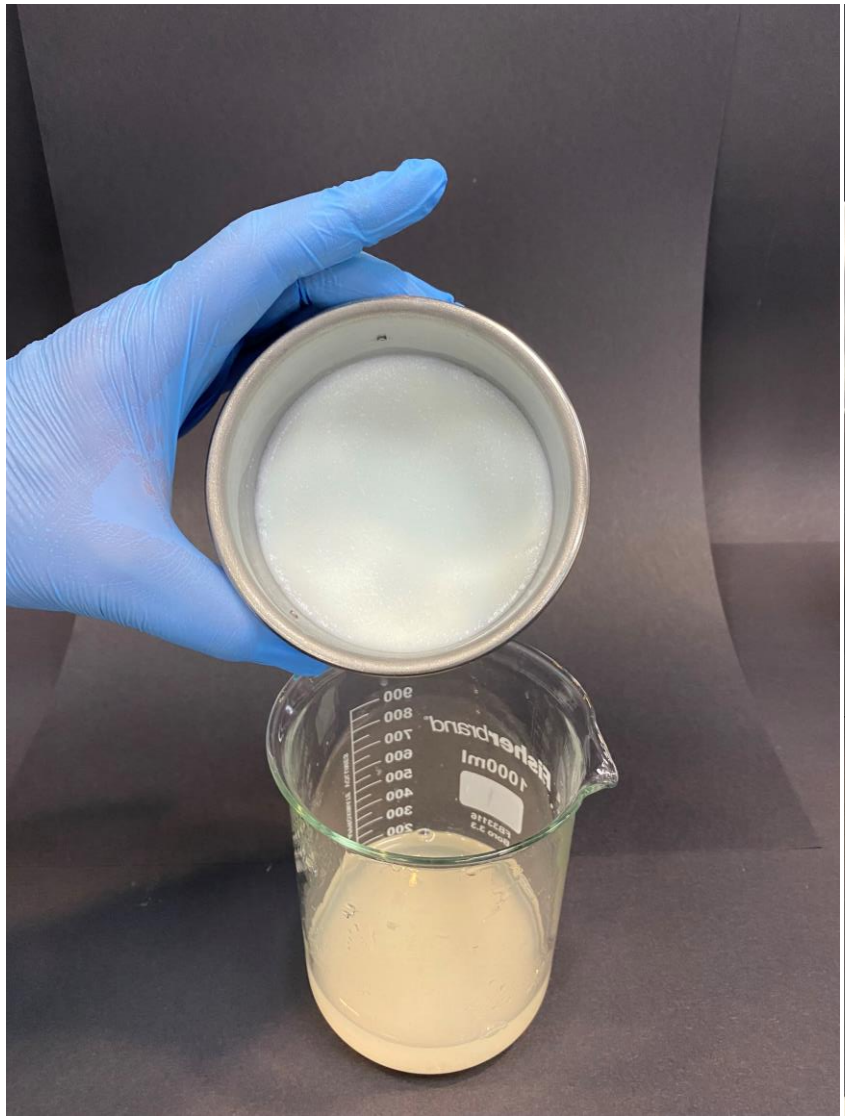
YaraVita Kombiphos: **5.0 lt/ha**

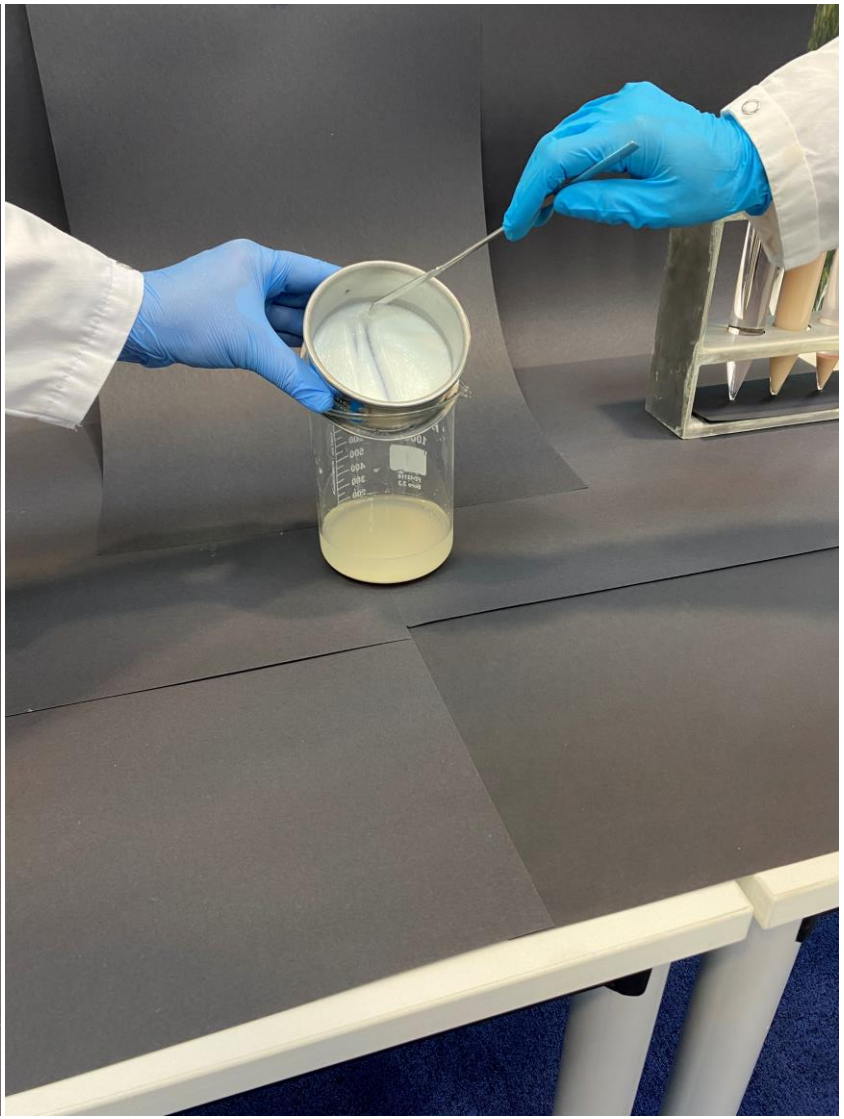
Non-Compatible Tank mix – Heavy precipitate

Water Rate: **100 lt/ha**

YaraVita Stopit: **10.0 lt/ha**

YaraVita Agripotash: **5.0 lt/ha**





Heavy precipitation and will not pass through filter mesh

= incompatible as would block sprayer

Tank mixes showing the importance of exact rates (high rate OK low rate NOT)

Mix 7A – Compatible Tank mix

Water Rate: 200 lt/ha

YaraVita Kombiphos: 5.0 lt/ha

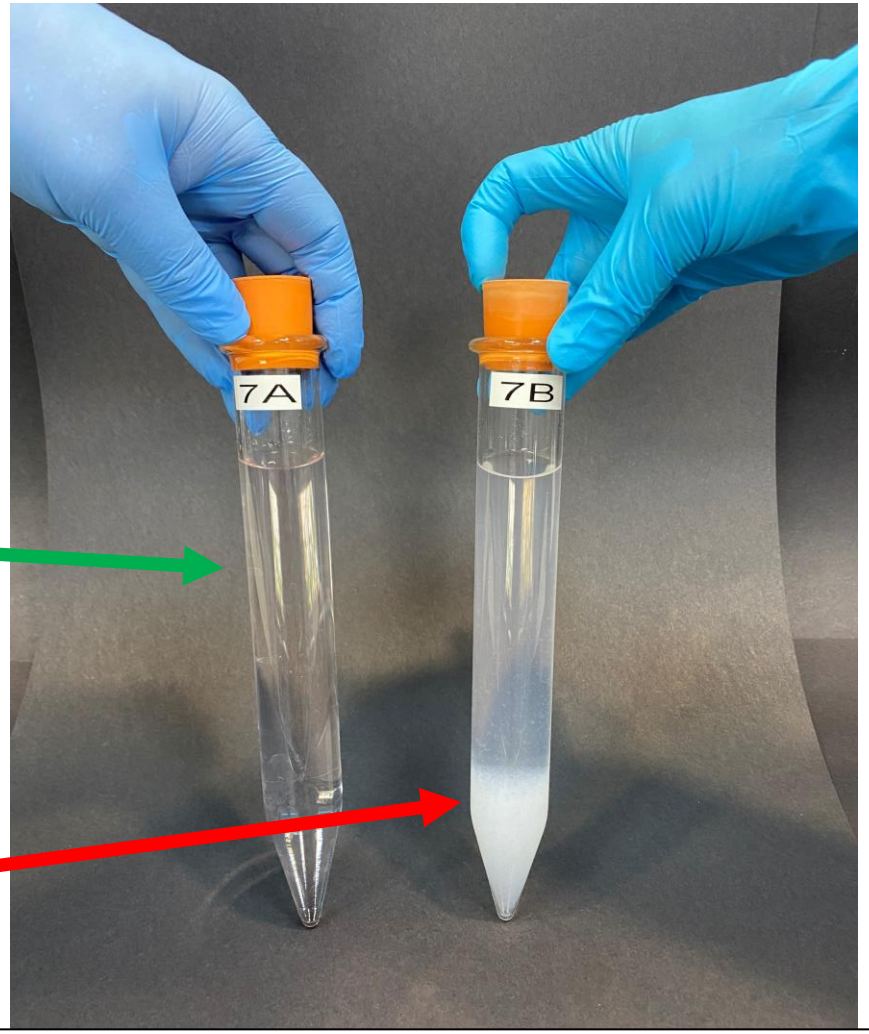
YaraVita Bortrac: 1.0 lt/ha

Mix 7B – Non-compatible Tank mix

Water Rate: 200 lt/ha

YaraVita Kombiphos: 2.0 lt/ha

YaraVita Bortrac: 1.0 lt/ha



This shows the importance of **EXACT** rates when requesting tank mix testing, **do not assume** ☺

Tank mix showing the importance of leaving the test to stand for 1 hour (slow reaction)

Water Rate: **200 lt/ha**

YaraVita Kombiphos: **3.0 lt/ha**

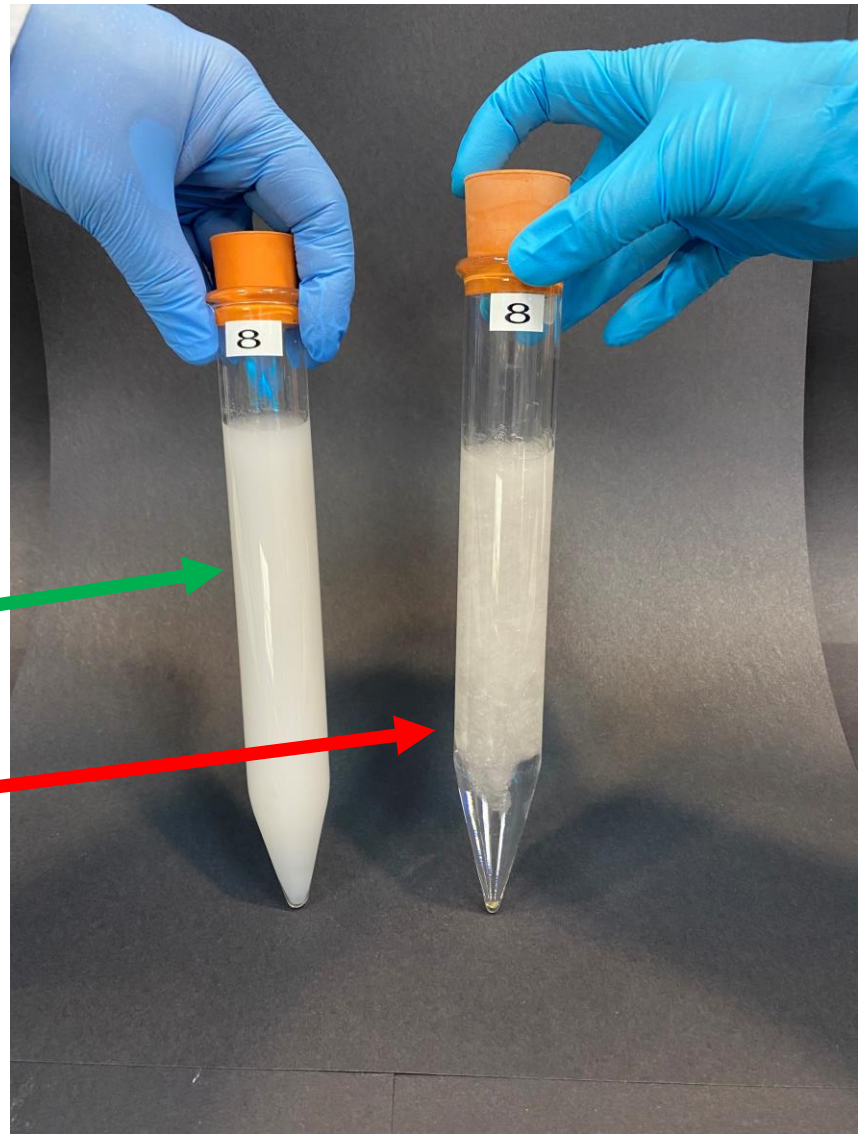
Duplosan KV *(herbicide)*: **1.5 lt/ha**

This shows why we leave the mix to stand for 1 hour before confirming result

Immediately the mix looks fine

However after 1 hour it has gone like cotton wool

Given large sprayers can cover up to 80 ha per tank this is important as this mix would block the sprayer



Tank mix showing the importance of correct mixing order

Mix 9A - Compatible Tank mix

Water Rate: **200 lt/ha**

Sencorex WG *(herbicide):* **0.2 kg/ha**

YaraVita Stopit: **10.0 lt/ha**

WG solid product added first and fully dissolved, then liquid solution added, mix is compatible.

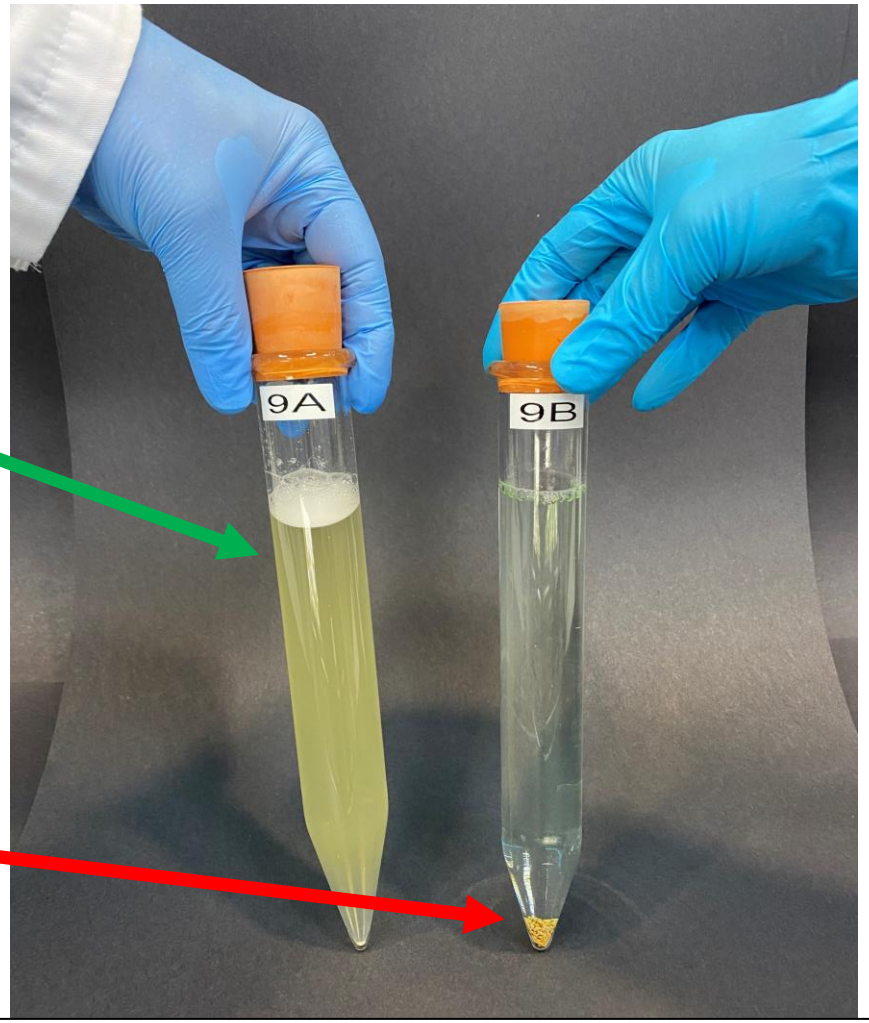
Mix 9B - Non-compatible Tank mix

Water Rate: **200 lt/ha**

YaraVita Stopit: **10.0 lt/ha**

Sencorex WG *(herbicide):* **0.2 kg/ha**

Liquid solution added first, then WG solid product. The WG will not dissolve so incompatible



This shows the importance of the correct mixing order (see next slide)

Correct Mixing Order

1) Water Conditioners or anti-foam if needed

2) Solid Micronutrients

3) Solid crop protection products

(eg wettable granules, solid granules, wettable powder)

4) Water based crop protection products

(eg suspension concentrates, capsule suspensions)

5) Suspension concentrate / liquid micronutrients

6) Solvent based crop protection products

(eg suspo emulsions, emulsion in water, oil dispersal, emulsion concentrates)

7) Adjuvants if needed

General guidance on mixing order, based on best practice & testing experience is given below:-

1 Add water (around 1/2 to 3/4 of the intended sprayer volume)
2 Start agitator with medium intensity
3 Add water conditioners or anti-foam agents, if required
4 Fertilizer, micronutrients (solid)
5 Solid formulations (WG, WP, SG, SP)
6 Water-based formulations (SC, CS, SL)
7 Solvent-based formulations (SE, EW, EO, EC, DC, OD, ME)
8 Top up water to required volume
9 Additives and adjuvants independent of their formulation type

From BASF Website

www.tankmix.com

Key Reminders

- ✓ Always visit www.tankmix.com or download the app to check tank mixes – if mix is not there request the mix (usually results returned within 48 hours)
- ✓ Do not assume because one rate is OK another rate will be (slide 10) – if in doubt get it checked, it is a free service as part of the YaraVita offering
- ✓ If doing your own jar/bucket test, leave for 1 hour to ensure fully compatible (slide 10)
- ✓ Ensure using correct mixing order for new tank mix requests and when adding to sprayer (slide 13)

www.tankmix.com