**Field Trial Protocol of Imazamox**

**Trial ID:** Sinochem Imazamox Bioequivalence

**Trial Objectives:**

1. To compare a new Imazamox formulation with standard Imazamox herbicide, when applied for the control of grassy and broadleaf weeds in tolerance sunflower.
2. To evaluate crop safety of the new Imazamox formulation for safety to sunflower.

**Crops:** tolerance sunflower

**Pest:** Gramineous and broadleaf weeds

**Trial Design:** Randomised complete block, three replicates. Plots 3 m x 10 m or similar.

**Application:** Post emergence according to local actual application technology. Record the growth stage of crop and weed when spray. Record the spray volume of (herbicide+water) per hectare.

**Treatments - Efficacy:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Treatment  No. | Product | Active Ingredient | Rate  g ai/ha | Product Rate\* mL/ha |
| 1 | Untreated Control | Nil | Nil | Nil |
| 2 | imazamox | 40 g/l | 36 | 900 |
| 3 | imazamox | 40 g/l | 45 | 1125 |
| 4 | Imazamox | 40g/l | 50 | 1250 |
| 5 | Pulsar | 40g/l | 36 | 900 |
| 6 | Pulsar | 40g/l | 45 | 1125 |
| 7 | Pulsar | 40g/l | 50 | 1250 |
| 8 | Euro-lightning | 33+15g/l Imazamox+Imazapyr | 33+15 | 1000 |
| 9 | Euro-lightning | 33+15g/l  Imazamox+ Imazapyr | 39.6+18 | 1200 |

Assessment content: to be decided by local standard, SGS can decide what will be evaluated and let Sinochem know before conducting the trial.

1. Record crop growth stage(leaf stage), weed growth stage(leaf stage), weed species, plant height, row spacing before spray. (Photo)

2、Weed density counts by species at 15, 30 days after application. Calculate the strain of weed control efficacy. At 30 days after application, count weed density per square meter and measure the fresh weight of main weed by species per square meter, Calculate the strain of weed control efficacy and fresh weight control efficacy.

3、Record the damage symptom of weeds treated by herbicide(Photo).

4、Assess crop safety after application. (Photo)