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ID TEST METHODS OF MARIGOLD EXTRACT

1 Reference sample preparation To 1.0 g of the powder add 10 mL of hexane, sonicate for 15 min, filter.

2 Sample preparation To 0.1 g of the sample add 10 mL of hexane, sonicate for 15 min, filter.

3 Reference preparation Dissolve 5 mg of lutein reference standard with 2 mL of ethanol then dilute to 10mL with hexane.

4 Chromatographic conditions

Plate: Silica gel 60F254, Merck [Part #:1.05629.0001, Lot#:HX55154629] Mobile Phase:

Petroleum ether (60-90) R, chloroform R, acetone R (12:5:4 V/V/V). Development

Chamber: Saturated Twin Trough (saturation time 20 minutes)

Application: 10 μ L as bands.

Development: over a path of 13 cm.

Drying: in air

Detection: day light

