Bioactive compounds, antioxidant activity and sensory analysis of rice-based extruded snacks-like fortified with bean and carob fruit flours

Supplementary material

Figure S4. HPLC Chromatograms of inositol phosphates (IP3, IP4, IP5 and IP6) of the three raw samples, the six non-extruded (NE-), the six Extruded (EX-) flour formulations, and the extruded commercial sample
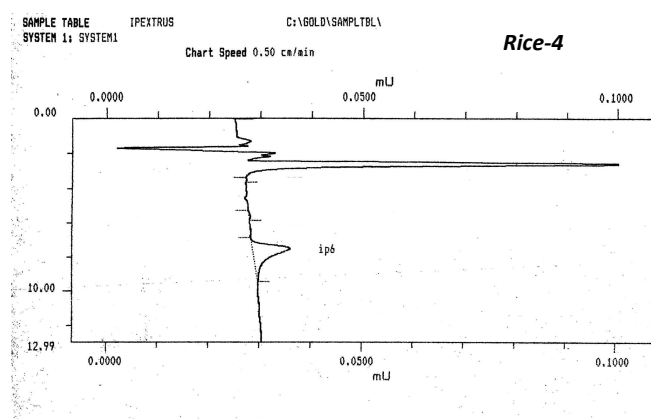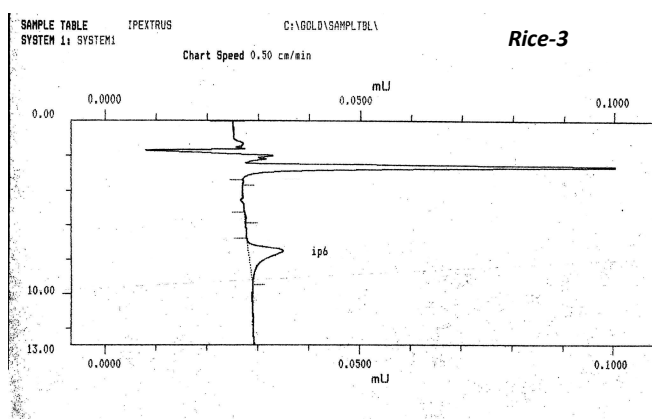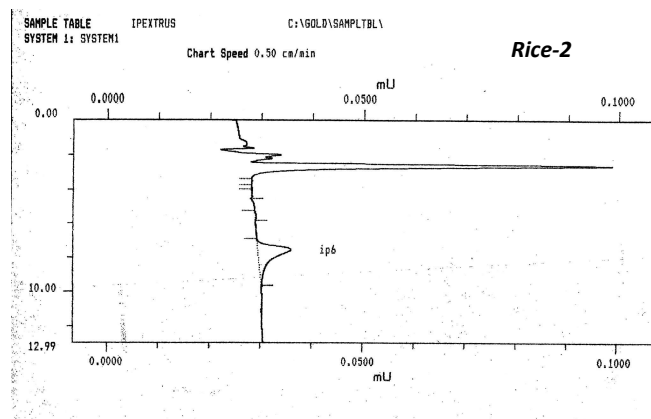

**Sample codes: 20.0 (20% bean; 0% whole carob fruit); 20.5 (20% bean; 5% whole carob fruit); 20.10 (20% bean; 10% whole carob fruit); 40.0 (40% bean; 0% whole carob fruit); 40.5 (40% bean; 5% whole carob fruit); 40.10 (40% bean; 10% whole carob fruit).

Rice-1

Chart Speed 0.50 cm/min

mU
0.0000   0.0500   0.1000
0.00

ip6

10.00

12.99
0.0000   0.0500   0.1000
mU

Rice-2

Chart Speed 0.50 cm/min

mU
0.0000   0.0500   0.1000
0.00

ip6

10.00

12.99
0.0000   0.0500   0.1000
mU

Rice-3

Chart Speed 0.50 cm/min

mU
0.0000   0.0500   0.1000
0.00

ip6

10.00

13.00
0.0000   0.0500   0.1000
mU

Rice-4

Chart Speed 0.50 cm/min

mU
0.0000   0.0500   0.1000
0.00

ip6

10.00

12.99
0.0000   0.0500   0.1000
mU

NE-20.0-1
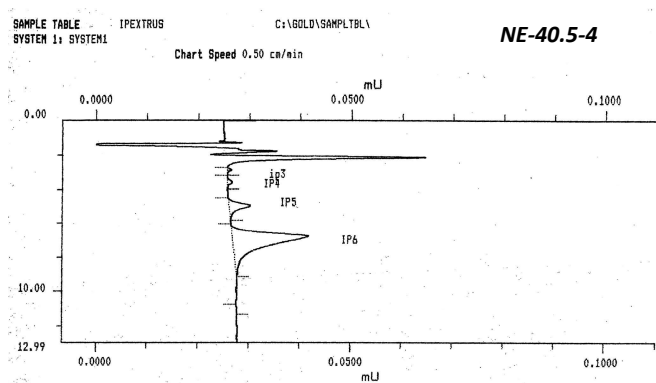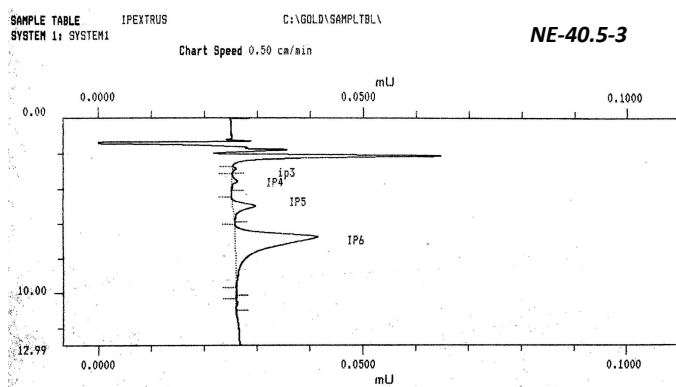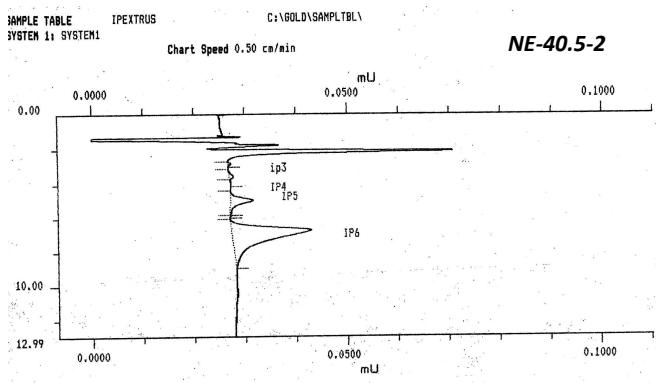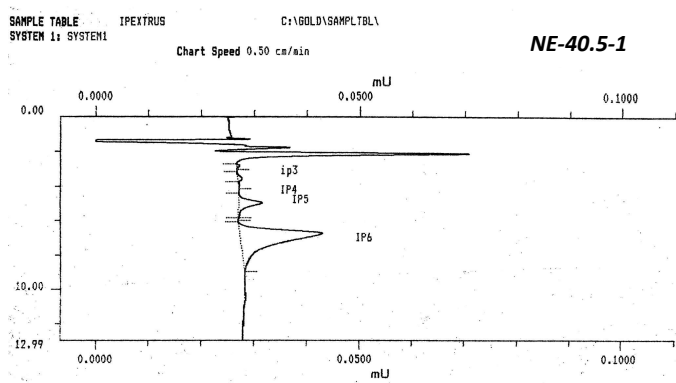
Chart Speed 0.50 cm/min

mU
0.0000   0.0500   0.1000
0.00

ip3
IP4
IP5

IP6

10.00

12.99
0.0000   0.0500   0.1000
mU

NE-20.0-2

Chart Speed 0.50 cm/min

mU
0.0000   0.0500   0.1000
0.00

ip3
IP4
IP5

IP6

10.00

12.99
0.0000   0.0500   0.1000
mU

NE-20.0-3

Chart Speed 0.50 cm/min

mU
0.0000   0.0500   0.1000
0.00

ip3
IP4
IP5

IP6

10.00

12.98
0.0000   0.0500   0.1000
mU

NE-20.0-4

Chart Speed 0.50 cm/min

mU
0.0000   0.0500   0.1000
0.00

ip3
IP4
IP5

IP6

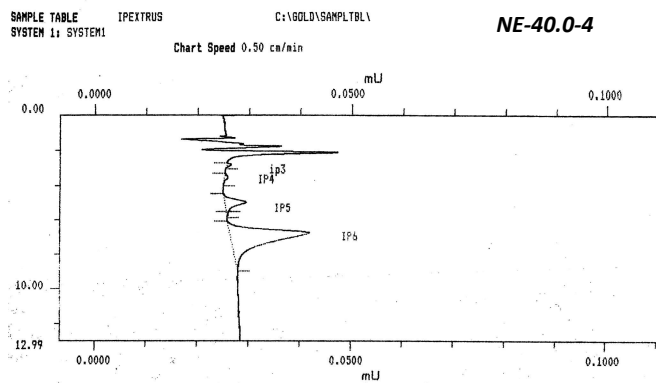10.00

12.99
0.0000   0.0500   0.1000
mU

**Sample codes: 20.0 (20% bean; 0% whole carob fruit); 20.5 (20% bean; 5% whole carob fruit); 20.10 (20% bean; 10% whole carob fruit); 40.0 (40% bean; 0% whole carob fruit); 40.5 (40% bean; 5% whole carob fruit); 40.10 (40% bean; 10% whole carob fruit).

NE-20.5-1

mU

IP3
IP4
IP5
IP6

NE-20.5-2

mU

ip3
IP4
IP5
IP6

NE-20.5-3

mU

ip3
IP4
IP5
IP6

NE-20.5-4

mU

ip3
IP4
IP5
IP6

NE-20.10-1

mU

IP4
ip6
IP6

NE-20.10-2

mU

ip3
IP4
IP5
IP6

NE-20.10-3

mU

ip3
IP4
IP5
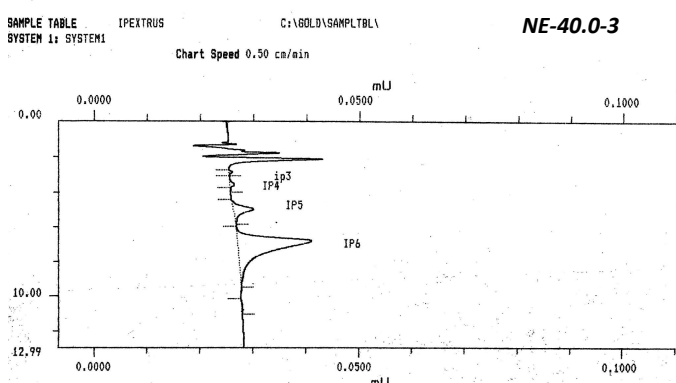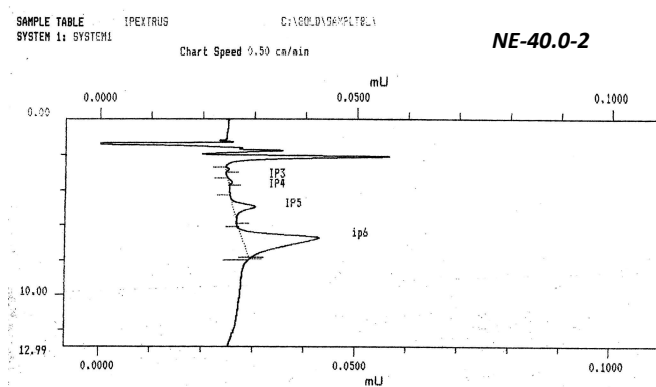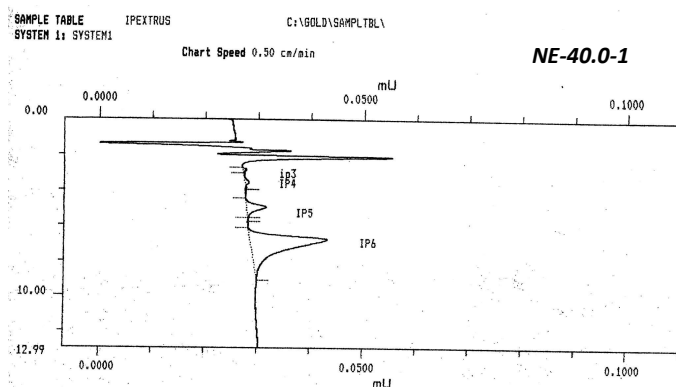IP6

NE-20.10-4

mU

ip3
IP4
IP5
IP6

**Sample codes: 20.0 (20% bean; 0% whole carob fruit); 20.5 (20% bean; 5% whole carob fruit); 20.10 (20% bean; 10% whole carob fruit); 40.0 (40% bean; 0% whole carob fruit); 40.5 (40% bean; 5% whole carob fruit); 40.10 (40% bean; 10% whole carob fruit).
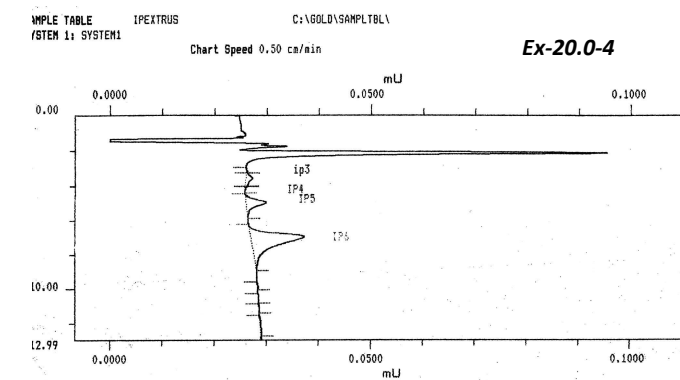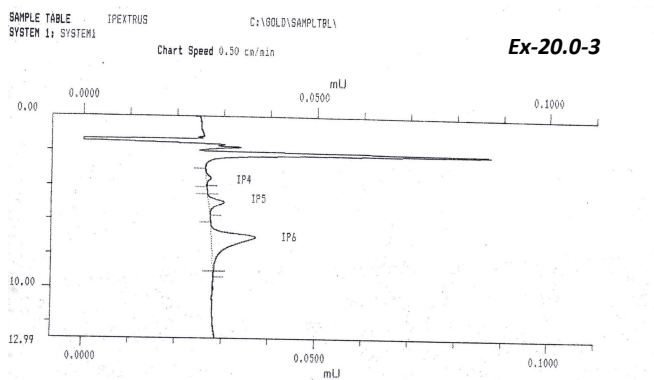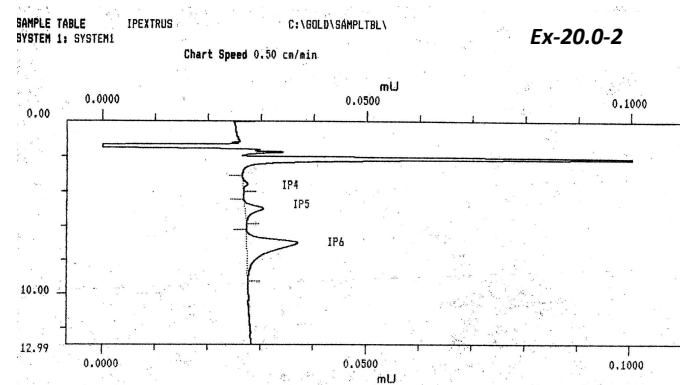
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NE-40.0-2

Chart Speed 0.50 cm/min

NE-40.0-3

Chart Speed 0.50 cm/min

NE-40.0-4

Chart Speed 0.50 cm/min

NE-40.5-1

Chart Speed 0.50 cm/min

NE-40.5-2

Chart Speed 0.50 cm/min

NE-40.5-3

Chart Speed 0.50 cm/min

NE-40.5-4

Chart Speed 0.50 cm/min

**Sample codes: 20.0 (20% bean; 0% whole carob fruit); 20.5 (20% bean; 5% whole carob fruit); 20.10 (20% bean; 10% whole carob fruit); 40.0 (40% bean; 0% whole carob fruit); 40.5 (40% bean; 5% whole carob fruit); 40.10 (40% bean; 10% whole carob fruit).
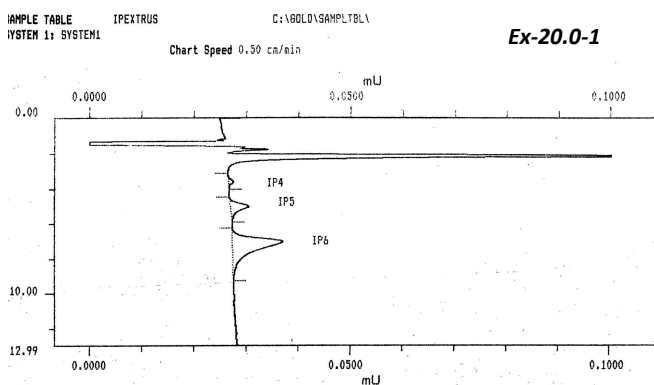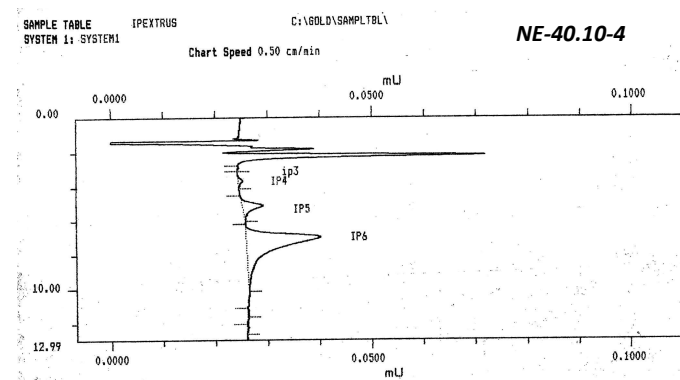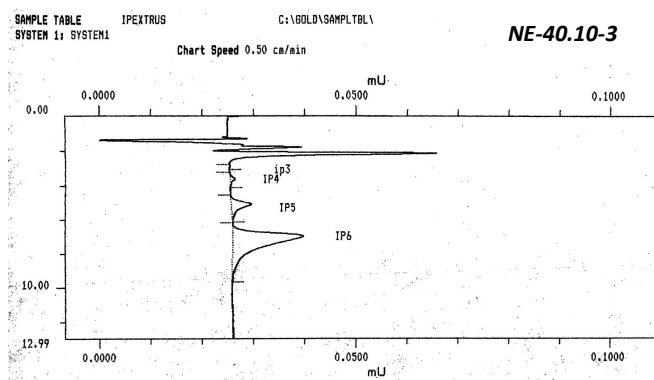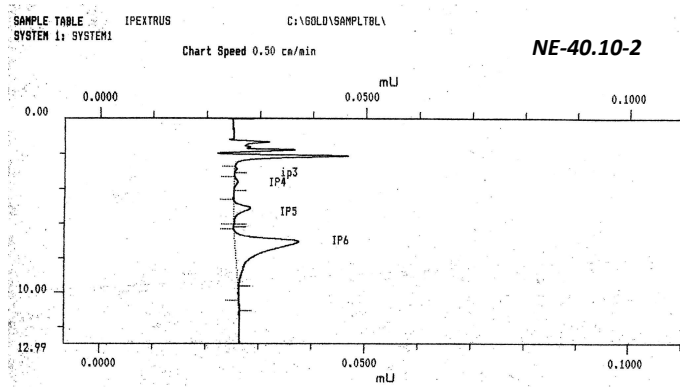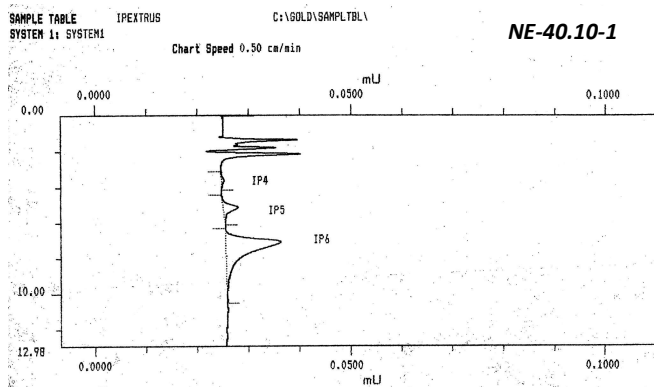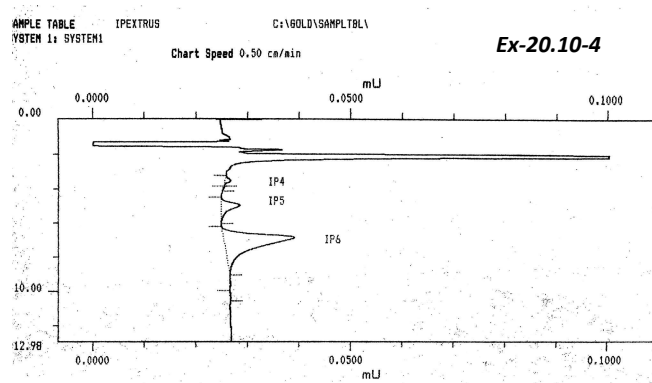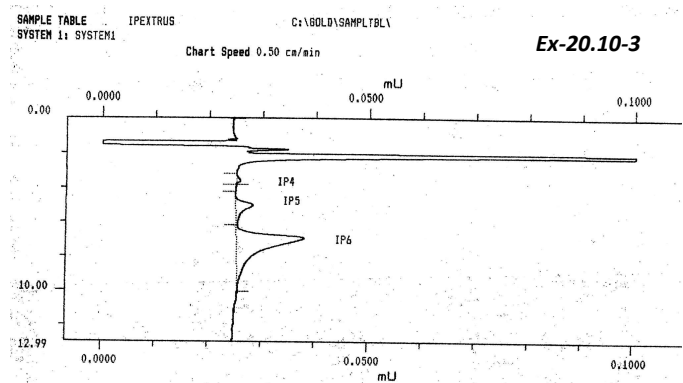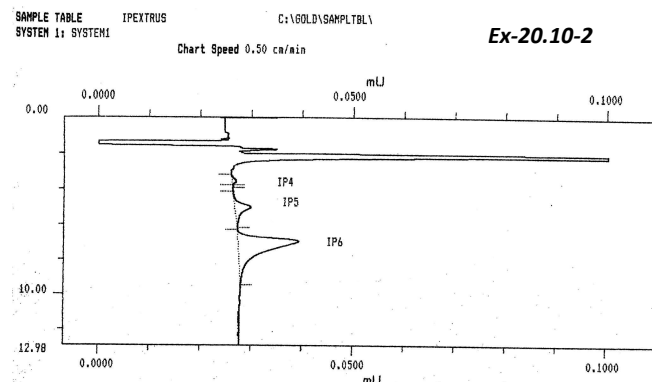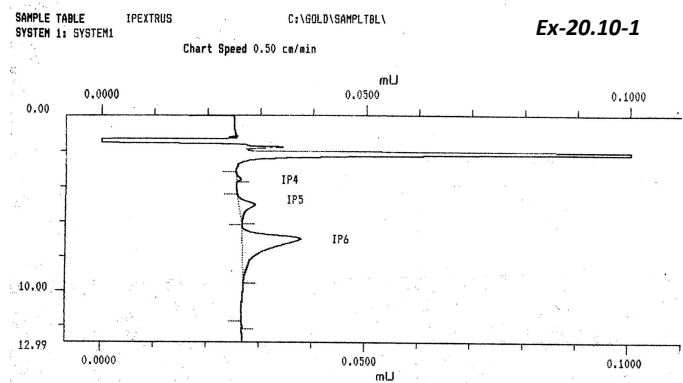
NE-40.10-1

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Chart Speed 0.50 cm/min

IP4
IP5
IP6

NE-40.10-2

SAMPLE TABLE   IPEXTRUS   C:\GOLD\SAMPLTBL\
SYSTEM 1: SYSTEM1
Chart Speed 0.50 cm/min

IP4 ip3
IP5
IP6

NE-40.10-3

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SYSTEM 1: SYSTEM1
Chart Speed 0.50 cm/min

IP4 ip3
IP5
IP6

NE-40.10-4

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Chart Speed 0.50 cm/min

IP4 ip3
IP5
IP6

Ex-20.0-1

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Chart Speed 0.50 cm/min

IP4
IP5
IP6

Ex-20.0-2

SAMPLE TABLE   IPEXTRUS   C:\GOLD\SAMPLTBL\
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IP5
IP6

Ex-20.0-3

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Ex-20.0-4

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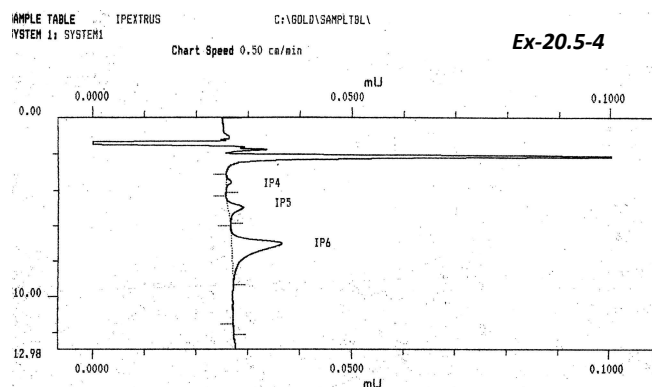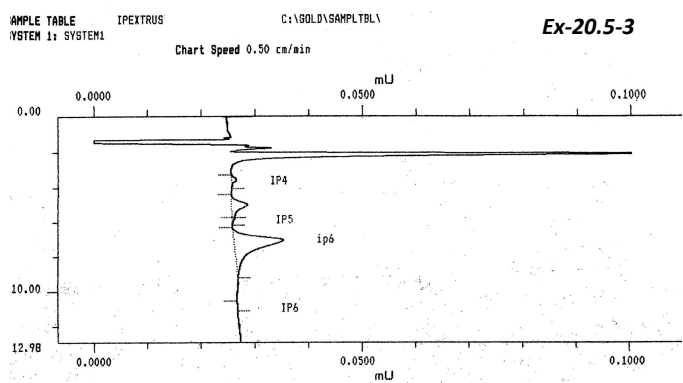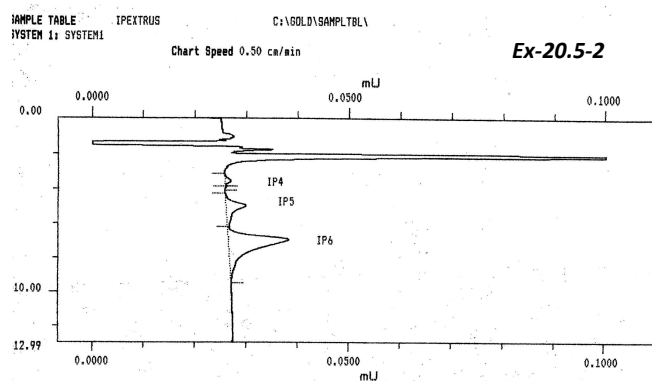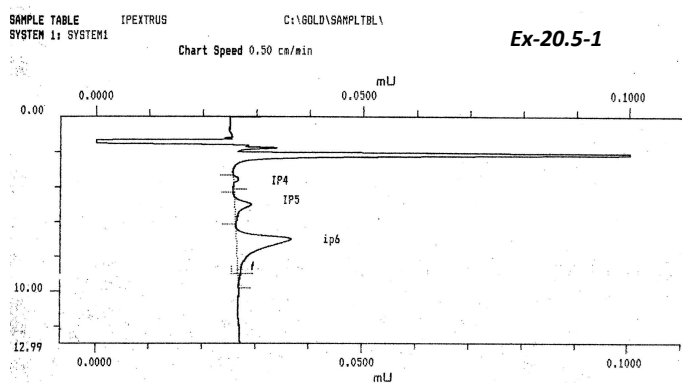SYSTEM 1: SYSTEM1
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ip3
IP4
IP5
IP6

**Sample codes: 20.0 (20% bean; 0% whole carob fruit); 20.5 (20% bean; 5% whole carob fruit); 20.10 (20% bean; 10% whole carob fruit); 40.0 (40% bean; 0% whole carob fruit); 40.5 (40% bean; 5% whole carob fruit); 40.10 (40% bean; 10% whole carob fruit).
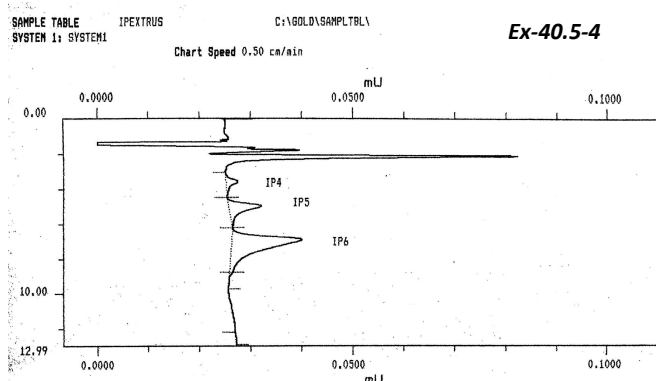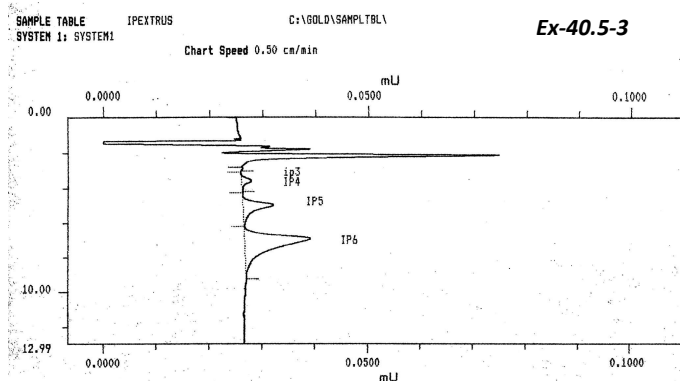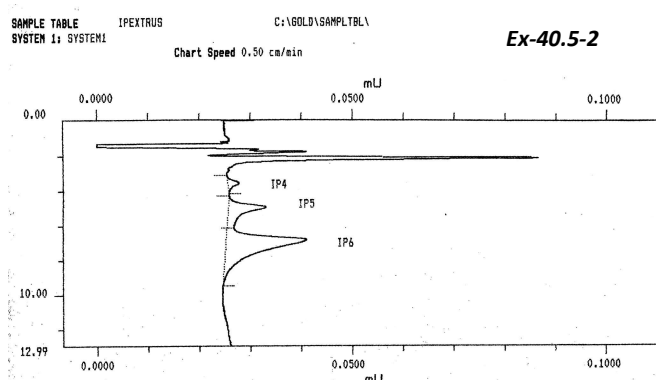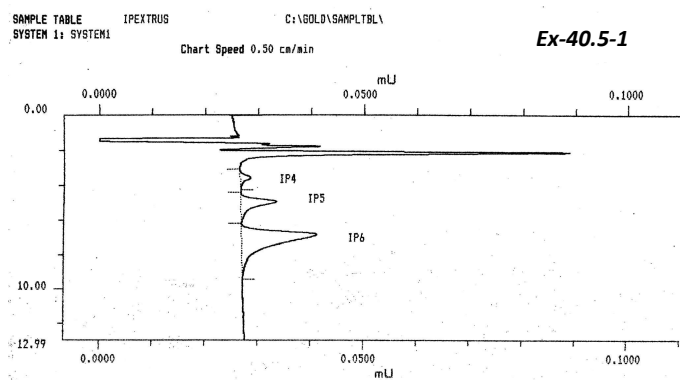
Ex-20.5-1

IP4
IP5
ip6

Ex-20.5-2

IP4
IP5
IP6

Ex-20.5-3

IP4
IP5
ip6
IP6

Ex-20.5-4

IP4
IP5
IP6

Ex-20.10-1

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IP5
IP6

Ex-20.10-2

IP4
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Ex-20.10-3
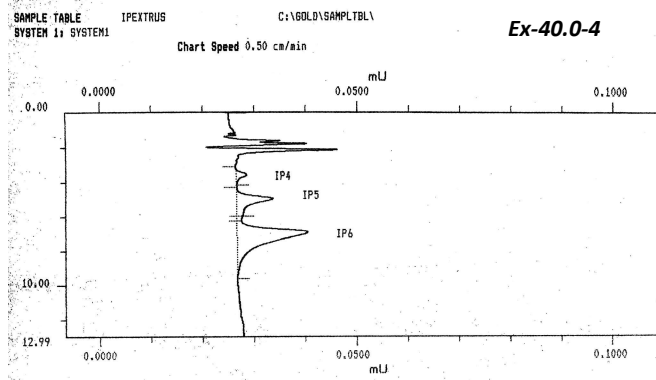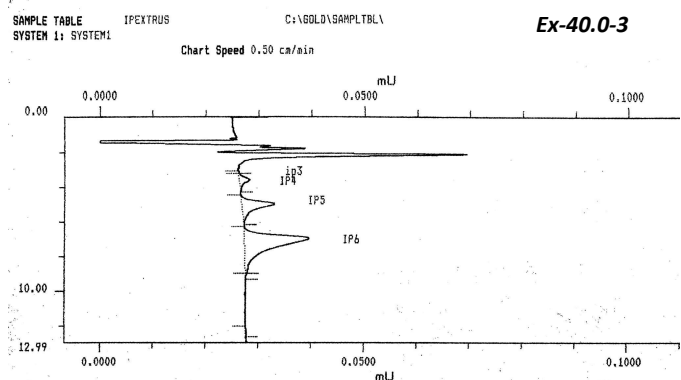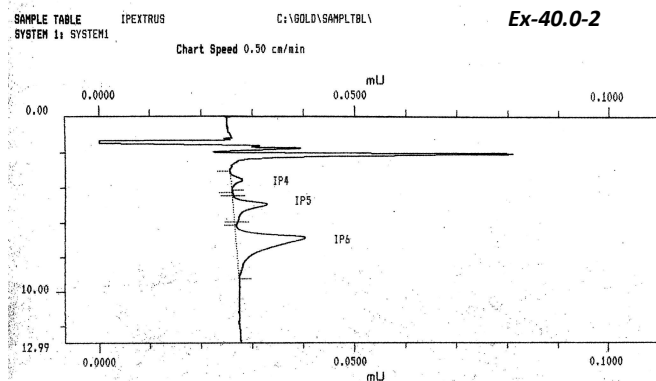
IP4
IP5
IP6

Ex-20.10-4

IP4
IP5
IP6

**Sample codes: 20.0 (20% bean; 0% whole carob fruit); 20.5 (20% bean; 5% whole carob fruit); 20.10 (20% bean; 10% whole carob fruit); 40.0 (40% bean; 0% whole carob fruit); 40.5 (40% bean; 5% whole carob fruit); 40.10 (40% bean; 10% whole carob fruit).
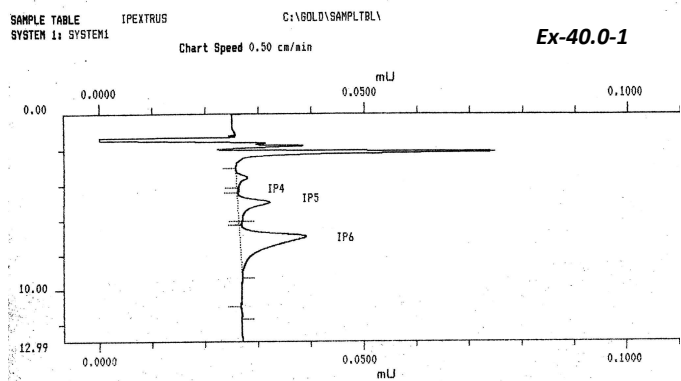
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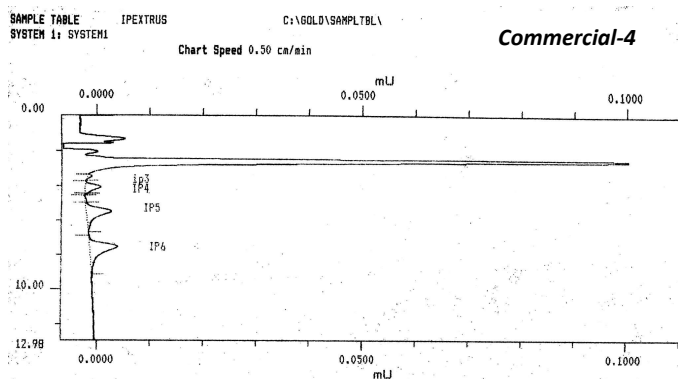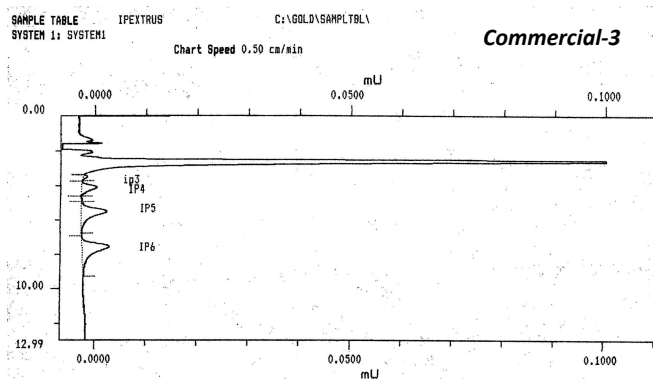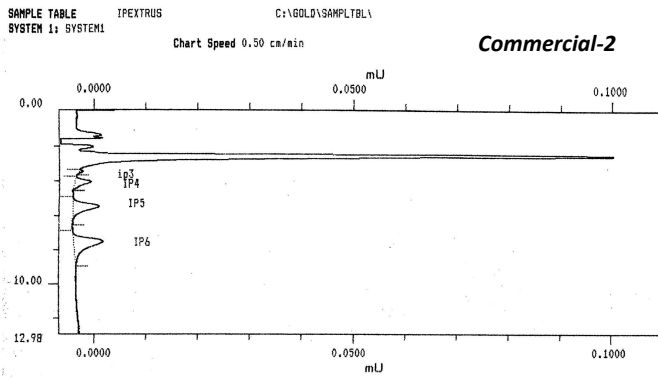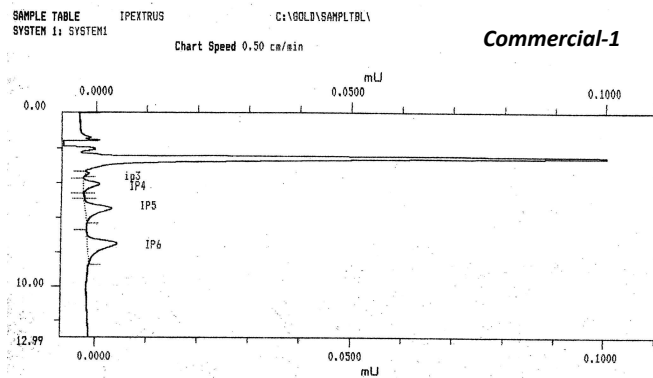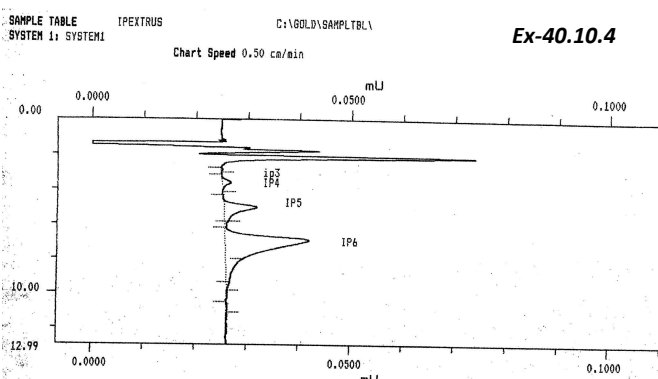
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Ex-40.10-2

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Chart Speed 0.50 cm/min
Ex-40.10.3

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Chart Speed 0.50 cm/min
Ex-40.10.4

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Chart Speed 0.50 cm/min
Commercial-1

SAMPLE TABLE   IPEXTRUS   C:\GOLD\SAMPLTBL\
SYSTEM 1: SYSTEM1
Chart Speed 0.50 cm/min
Commercial-2

SAMPLE TABLE   IPEXTRUS   C:\GOLD\SAMPLTBL\
SYSTEM 1: SYSTEM1
Chart Speed 0.50 cm/min
Commercial-3

SAMPLE TABLE   IPEXTRUS   C:\GOLD\SAMPLTBL\
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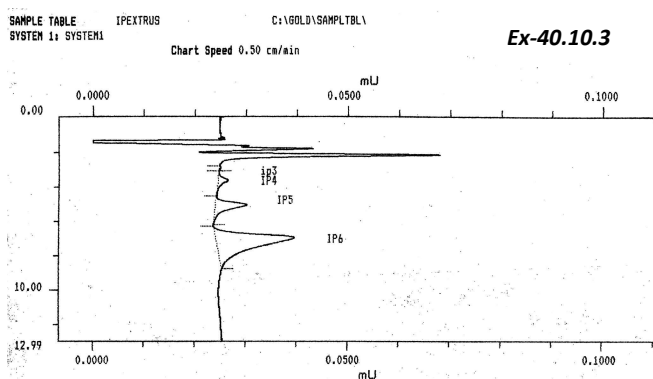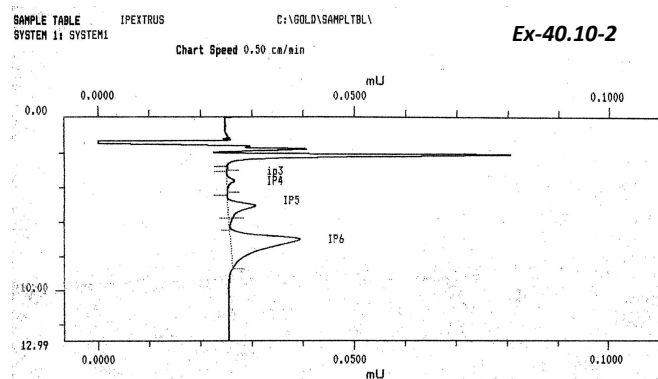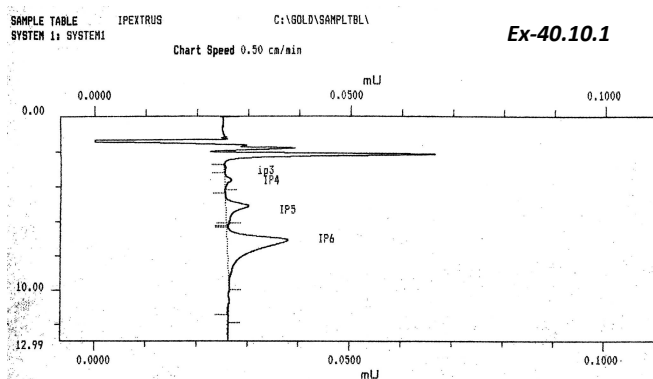Chart Speed 0.50 cm/min
Commercial-4

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