

Merck KGaA, Darmstadt, Germany – Q3 2014 Roadshow Presentation

Investor Relations

Merck KGaA

Darmstadt · Germany

December 2014



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Important Additional Information

This communication may be deemed to be solicitation material in respect of the proposed acquisition of Sigma-Aldrich by Merck KGaA, Darmstadt, Germany. The proposed acquisition will be submitted to the stockholders of Sigma-Aldrich for their consideration. In connection therewith, on November 3, 2014, Sigma-Aldrich filed a definitive proxy statement with the SEC. Sigma-Aldrich will also begin mailing the definitive proxy statement on November 3, 2014, to its stockholders of record as of the close of business on October 29, 2014. BEFORE MAKING ANY VOTING OR ANY INVESTMENT DECISION, INVESTORS AND STOCKHOLDERS ARE URGED TO READ THE DROYS STATEMENT REGARDING THE PROPOSED TRANSACTION AND ANY OTHER RELEVANT DOCUMENTS FILED OR TO BE FILED WITH THE SEC CAREFULLY AND IN THEIR ENTIRETY WHEN THEY BECOME AVAILABLE BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION ABOUT THE PROPOSED TRANSACTION. Investors and stockholders may obtain free copies of the proxy statement, any amendments or supplements thereto and other documents containing important information about Sigma-Aldrich, once such documents are filed with the SEC, through the website maintained by the SEC at www.sec.gov. Copies of the documents filed with the SEC by Sigma-Aldrich will be available free of charge on Sigma-Aldrich's website at http://investor.sigmaaldrich.com under the heading "Financial Information—SEC Filings". Stockholders of Sigma-Aldrich may also obtain a free copy of the definitive proxy statement by contacting Sigma-Aldrich's Investor. Relations Department at (314) 898-4643.

Sigma-Aldrich and certain of its directors, executive officers and other members of management and employees may be deemed to be participants in the solicitation of proxies in connection with the proposed transaction. Information about the directors and executive officers of Sigma-Aldrich is set forth in its proxy statement for its 2014 annual meeting of stockholders, which was filed with the SEC on March 21, 2014, its annual report on Form 10-K for the fiscal year ended December 31, 2013, which was filed with the SEC on February 6, 2014, and in subsequent documents filed with the SEC, each of which can be obtained free of charge from the sources indicated above. Other information regarding the participants in the proxy solicitation of the stockholders of Sigma-Aldrich and a description of their direct and indirect interests, by share holdings or otherwise, is contained in the definitive proxy statement and other relevant materials filed with the SEC.



Agenda

Business overview

Transforming the company

Strategic update on Biopharmaceuticals

Financial review and guidance

We have added scale while strengthening the attractiveness of our portfolio



¹Proforma figure including FY 2013 sales of AZ Electronic Materials acquired as of 2 May 2014, ²Excluding "Crop Bioscience", which was divested; ³Excluding "Theramex", which was divested

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Growth initiatives have fundamentally improved profitability



¹adjusted EBIT²and EBITDA pre divided by total revenues; ²adjusted EBIT is EBIT less exceptional items (e.g. impairments, integration costs, restructuring costs) ³Pro-forma calculation based on published FY 2013 results for Merck KGaA, Darmstadt, Germany (including pro-forma AZ); based on 100% expected synergies; including Corporate & Other

A balanced portfolio of four divisions





Strong businesses with attractive margins



¹EBITDA pre margin in % of sales; ²Including Corporate/Others (-€44.1 m) Totals may not add up due to rounding

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Growth across all regions



*Australia/Oceania, Africa Totals may not add up due to rounding

Our portfolio will remain diversified

Healthcare' Performance Materials Life Sciences Sales² Construction and risk management Diversification and risk management Diversification and risk management Attractive markets High-margin businesses Overlapping core competencies (meeting customer needs, innovation, regulated markets, quality, lifecycle management, handling of portfolio and product complexity) Company heritage

¹Healthcare includes Biopharmaceuticals and Consumer Health; ²Proforma calculation based on published figures for FY 2013 for Merck KGaA, Darmstadt, Germany and AZ Electronic Materials ³Proforma calculation including AZ Electronic Materials and 100% expected synergies; excluding Corporate+Other Merck KGaA

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All businesses in our portfolio have to meet stringent criteria



*Integrated Circuit



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Strategic agenda beyond 2014 – Focus on growth

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Strong progress since 2012 but further room for efficiency improvements





Ongoing efficiency initiatives to reduce costs and to support our growth strategy



Harmonization of IT systemsStandardization of processesLeverage and upscale shared services



- Further reduction of operating leverage
- Additional focus on non-headcountrelated costs
- Permanent cost control as part of our DNA

Scalable business model enabling swift M&A integration and synergy generation



Sigma-Aldrich – Next step to enhance Life Science segment



Sigma Aldrich acquisition – A compelling transaction Merck KGaA rationale

| | Increasing scale – expanding position in attractive life science industry Enhancing value for our customers | | | | | |
|-------------------------------|--|--|--|--|--|--|
| | | | | | | |
| Strategic and operational fit | Broadens product range and ease of doing business for Laboratories & Academia | | | | | |
| | Complements Process Solutions product offering | | | | | |
| | Closing the gap in U.S. – adequate presence in all geographies | | | | | |
| | Leveraging existing platforms for global innovation rollout | | | | | |
| Financial fit | Further diversification of revenue stream | | | | | |
| | Substantial synergy potential | | | | | |
| | Immediately accretive to EPS pre* and EBITDA margin | | | | | |
| | Solid investment grade rating will be maintained | | | | | |

*EPS pre one-time items and amortization, especially from purchase price allocation (PPA)

Broad and complementary product fit in attractive segments



*Key laboratory and academia areas illustrated

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Expanding global reach and scale



¹Based on FY 2013 data in €m; ²Latin America, Asia w/o Japan; ³Japan, Australia/Oceania, Africa

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Leveraging operational excellence to deliver superior value to customers



Transaction enhances our financial profile



¹Pro-forma calculation based on published sales for FY 2013 for Merck KGaA, Darmstadt, Germany (including pro-forma AZ Electronic Materials) and Sigma-Aldrich; ²Pro-forma calculation based on published sales for FY 2013 for Merck KGaA, Darmstadt, Germany (including pro-forma calculation based on 100% expected synergies; excluding Corporate & Other; ⁴Including Corporate & Other;

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Support from meaningful synergies



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A substantial number of "Fit for 2018" measures have already been implemented



*TIP = Translational Innovation Platform

Portfolio management: Differentiating across diverse Merck KGaA business models





Biopharmaceuticals has three different business models with specific strengths and requirements



¹Source: Proforma re-calculation based on 2013 data for Biopharmaceuticals; excluding Consumer Health; ²Gradual sales ramp-up expected from 2017 onwards ³Excluding contributions from R&D pipeline



The road to maximizing Biopharmaceuticals' existing ^M franchises is clear



Continue to drive front-line mCRC share by increasing patient testing and expanding head and neck coverage



Capitalize on strong efficacy and new smart devices to maximize differentiation and defend franchise



Build on No.1 position and ART¹ channel access with embryo
 diagnostics and other innovative technologies



Glucophage)

Concor' KUVAN

Harness strengths of existing business and build a new focus area driven by innovative devices and services for patients

Build on existing track record in Emerging Markets, drive brand and life-cycle management and expand business including asset repatriation



¹ART = Assisted Reproductive Technology

Merck KGaA, Darmstadt, Germany and Pfizer – two strong players combining forces in oncology



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Three strategic drivers for collaboration



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Financial implications of the deal with Pfizer



\$850 m upfront cash payment, accrual to be released over several years

~50:50 R&D Cost split for drug development

Milestone payments of up to \$2.0 bn based on filing/approval and commercialization of the compound across various indications & markets

Co-commercialization of Xalkori – 2015 reimbursement for ramping up infrastructure and capabilities; followed by profit sharing agreement

Following regulatory approval, first potential sales of Anti PD-L1 compound





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All our businesses drive organic growth, while currency headwinds abate

| Q3 YoY sales | | Orga | anic (| Currency | Portfolio | o Total | All key franchises of | |
|-----------------------|-------------------------|--------------------|--------------------------|-----------------|----------------------|-----------------------|---|--|
| Biopharmaceutical | S | 4. | 5% | -0.8% | 0.0% | 3.7% | Biopharmaceuticals deliver organic | |
| Consumer Health | | 1.4 | 4% | 0.0% | 0.0% | 1.5% | growth Good volumes in Liquid Crystals drive | |
| Performance Mate | rials | 7.0 | 0% | -0.2% | 35.0% | 41.7% | Performance Materials | |
| Life Science | | 4. | 5% | -0.1% | -1.0% | 3.4% | Life Science benefits from strong performance of Process Solutions | |
| The Group | | 4.0 | 6% | -0.5% | 5.1% | 9.3% | | |
| | Q3 Y | oY EBITI | DA pre co | ntributors | [€ m] | | Biopharmaceuticals affected by | |
| 831 | -19 | -10 | +46 | +3 | +5 | 857 | Humira and Enbrel royalty income le and higher production costs | |
| | | | | | | | Consumer Health shows solid trend, but high comparables and investment in marketing | |
| EBITDA pre Q3 2013 | Biopharma- ceuticals | Consumer Health | Performance Materials | Life Science | Corporate & Other | EBITDA pre Q3 2014 | Performance Materials includes a full quarter of AZ contribution | |

Totals may not add up due to rounding



Q3 2014: Sound financials

| [€ m] | Q3 2013 | Q3 2014 | Δ | Q3 2014 |
|--|----------------------|---------------------|--------|---|
| Sales | 2,659 | 2,906 | 9.3% | Sales up on organic improvement and full AZ contribution |
| EBITDA pre Margin (% of sales) | 831 31.2% | 857 29.5% | 3.1% | EBITDA pre increases on organic growth and AZ, margin reflects roya income losses |
| EPS pre [€] | 1.15 | 1.15 | 0% | EPS pre flat amid higher D&A and |
| Operating cash flow | 827 | 726 | -12.2% | lower financial resultOperating cash flow impacted by |
| [€ m] | Dec 31, 2013 | Sept. 30, 2014 | Δ | lower royalty income and increase |
| Net financial debt | 307 | 1,521 | >100% | in working capital Higher headcount includes employee |
| Working capital | 2,132 | 2,554 | 19.8% | from AZ |
| Employees | 38,154 | 39,355 | 3.1% | |
| Net financial c | lebt increases on AZ | acquisition | | |



Biopharmaceuticals: Emerging Markets drive organic growth

| [€ m] | Q3 2013 [*] | Q3 2014 | Comments | |
|-----------------------|----------------------|----------|---|--|
| Sales | 1,413 | 1,465 | Sales improve due to solid organic growth, slightly impacted by FX | |
| Marketing and selling | -428 | -433 | Rebif with organic growth as U.S. pricing outweighs volume loss | |
| Admin | -49 | -55 | Erbitux with good organic performance driven by all regions | |
| R&D | -296 | -410 | Increase in R&D due to pipeline prioritization (tecemotide and plovamer discontinuations) and Biosimilars initiatives | |
| EBIT | 240 | 237 | Higher R&D expense balanced by reduction in litigation provision | |
| EBITDA | 446 | 436 | reported under other operating income/expenses line | |
| EBITDA pre | 467 | 449 | EBITDA pre burdened by lower royalties (Humira, Enbrel) and higher production costs | |
| Margin (% of sales) | 33.1% | 30.6% | | |
| S | ales bridge | | Q3 2014 share of group sales | |
| €1,413 m 4.5% | -0.8% 0.0% | €1,465 m | Biopharma- | |
| | | | 50% ceuticals | |
| Q3 2013 Organic | Currency Portfolio | Q3 2014 | | |

*Restated for product reclassification of Neurobion and Floratil from Biopharmaceuticals to Consumer Health

Consumer Health: Q3 compares to a strong base

| [€ m] | (| ຊ3 2013້ | Q3 201 | Comments |
|-----------------------|-------------|-----------|---------|--|
| Sales | | 201 | 20 | |
| Marketing and selling | | -72 | -7 | |
| Admin | | -6 | - | Emerging Markets main driver of organic growth, especially drive by Neurobion and Floratil in Brazil |
| R&D | | -6 | | Femibion continues to grow organically, especially in Germany |
| EBIT | | 55 | 4 | |
| EBITDA | | 57 | 4 | EBITDA pre impacted by higher marketing and selling costs, |
| EBITDA pre | | 58 | 4 | |
| Margin (% of sales) | | 28.9% | 23.8 | Margin maintained at sustainable level |
| | Sales bridg | ge | | Q3 2014 share of group sales |
| €201 m 1.4% | 0.1% | 0.0% | €204 m | Consumer Health |
| Q3 2013 Organic | Currency | Portfolio | Q3 2014 | |

*Restated for product reclassification of Neurobion and Floratil from Biopharmaceuticals to Consumer Health

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Performance Materials: IPS and PS-VA fuel divisional performance

| [€ m] | Q3 2013 | Q3 2014 | Comments | |
|-----------------------|--------------------|---------|--|--|
| Sales | 406 | 576 | Sales increase on portfolio effect and good organic growth | |
| Marketing and selling | -38 | -45 | Liquid Crystals largest contributor to organic growth driven by | |
| Admin | -7 | -18 | good volumes Excellent performance of PS-VA and IPS due to strong demand fo | |
| R&D | -37 | -45 | premium TV's, supported by new UB-FFS mode for mobile devices | |
| EBIT | 177 | 152 | EBIT impacted by AZ inventory step-up | |
| EBITDA | 202 | 218 | EBITDA pre rises visibly due to AZ and good organic growth; AZ contributes lower average margins AZ integration well on track | |
| EBITDA pre | 197 | 243 | | |
| Margin (% of sales) | 48.4% | 42.2% | | |
| S | Sales bridge | | Q3 2014 share of group sales | |
| €406 m 7.0% | -0.2% 35.0% | €576 m | 20% Performance Materials | |
| | | | | |
| Q3 2013 Organic | Currency Portfolio | Q3 2014 | | |
Life Science: Process Solutions drives growth

[€ m] Q3 2013 Q3 2014 Comments Sales 639 Sound organic growth slightly reduced by FX and portfolio 661 Process Solutions drives divisional growth mainly due to strong Marketing and selling -209 -206 demand from biopharma industry for purification & sterilization Admin -25 -26 Lab Solutions flat as Emerging Markets demand for water R&D -40 -42 purification solutions is almost offset by softness in Europe Impact of U.S. sequestration as well as lower demand for EBIT 67 72 antibodies in Europe and North America weigh on Bioscience EBITDA 145 150 Profitability remains on healthy level owing to solid volumes **EBITDA pre** 157 161 Margin (% of sales) 24.3% 24.6% Q3 2014 share of group sales Sales bridge €661 m 4.5% €639 m -0.1% -1.0% Life Science 23% Q3 2013 Currency Organic Portfolio Q3 2014

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Full-year guidance confirmed



| Group guidance | for 2014, including AZ ¹ | |
|------------------------|-------------------------------------|--|
| Sales: | ~ €11.0 – 11.2 bn | |
| EBITDA pre: | ~ €3.3 – 3.4 bn | |
| EPS pre ² : | ~ €4.50 – 4.75 | |
| | | |

¹Including AZ Electronic Materials from May to December 2014 ²Based on number of shares after the share split, which has been effective since June 30, 2014

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Appendix

Guidance details



^{*}Including AZ Electronic Materials from May to December 2014

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Additional financial guidance



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Executive Board as of January 1, 2015



^{*}Responsibilities include Group Strategy & Organization, Regional Strategies, Public Affairs, Patents

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Growth initiatives will balance rising Rebif pressure – 'Innovation projects' provide upside potential



Illustration; * without pipeline contribution

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Emerging Markets are a key pillar of growth for Biopharmaceuticals



¹Source: IMS MIDAS, 2012/2013 constant USD; ²Source: Biopharmaceuticals Note: Size of bubble = € bn sales in Emerging Markets (2013)

AZ integration well on track



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Transaction overview

| PRICE | US\$ 140 per share, all-cash offer |
|-----------|---|
| Premium | Premium of 37% to unaffected share price; 36% to one-month volume-weighted average price (VWAP) |
| Certainty | Recommended by Sigma-Aldrich Board of Directors; No Merck KGaA, Darmstadt, Germany shareholder vote required |
| FINANCING | Bridge financing secured; Final structure: cash, bank loans and bonds; Strong combined cash flows for rapid deleveraging; solid investment grade rating will be maintained |
| TIMING | Subject to regulatory approvals; expected closing mid-year 2015 |

*Closing share price as of September 19, 2014



Sigma-Aldrich – A leading life science consumables supplier

Business

- Total revenues of \$2.7 billion in 2013
- ~9,000 employees including ~3,000 scientists and engineers
- Headquartered in St. Louis, MO
- Chemical and biochemical products, kits and services provider to laboratories and pharma production
- No. 1 eCommerce platform in the industry; ~1,600 sales people

Footprint

- Balanced regional exposure; strength in North America
- Operations in ~40 countries; products available in ~160 countries



*Company reports FY 2013

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Merck KGaA, Darmstadt, Germany and Sigma-Aldrich



¹Pro-forma calculation based on published sales for FY 2013 for Life Science and Sigma-Aldrich (FX conversion: EUR/USD 1.30); ²Pro-forma calculation based on 100% expected synergies and published figures for FY 2013 for Life Science and Sigma-Aldrich (FX conversion: EUR/USD 1.30)



Sigma-Aldrich and our company together serve the attractive €100bn life science industry



Source: Merck KGaA, Darmstadt, Germany

Sigma-Aldrich – Business and transaction financials

| 2013 2,704 +3% | 2,704 | 2014E ⁴ 2,796 | Equity value ~US\$17 bn (€13.1 bn) Enterprise value (EV) ~€12.7 bn including net cash ~€360 Financing through cash and debt; no equity |
|-----------------------------|-------|------------------------------------|--|
| , | , | 2,796 | |
| +3% | +3% | | |
| | | n.a. | Assumed synergies: ~€260m In line with core acquisition criteria |
| 821 | 821 | 852 | Immediately accretive to EPS pre |
| 30% | 30% | 30% | Solid investment grade rating will be maintained |
| 138 | 138 | 132 | Implied forward transaction multiples ³ |
| 5% | 5% | 5% | 2013 2014 |
| -357 | -357 | -466 ⁵ | EV/Sales 6.1x 5.9 |
| | 101 | | EV/EBITDA20.1x19.4EV/EBITDA pro-forma incl. synergies14.3x13.9 |
| | | -357 121 | |

¹Source: Company reports; ²FX conversion: EUR/USD 1.30; ³"Pro-forma" calculation based on 100% expected synergies; ⁴Median consensus estimates from latest broker reports; ⁵Last reported as per H1 2014 report (June 30, 2014)

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Sigma-Aldrich acquisition – Financing secured



¹Indicative only; ²Enterprise value

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Sigma-Aldrich acquisition – Taking Life Science to the next level



- Expanding position in the attractive life science industry, poised for sustainable growth
- Enhancing value for customers via strengthened offering, reach, and operational excellence



Sigma-Aldrich and Life Science will be core earnings contributor to our company and generate sustainable and growing cash flow



Consistent with our core acquisition criteria and corporate transformation journey

Indicative timeline of next steps



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Favorable tax rulings in several countries result in decrease in underlying tax rate



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Settlement on patent dispute with AbbVie, while BMS co-promotion will yield first results



Illustration

Group 2014 industry outlook







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All divisions post organic growth, currency headwinds soften

| 9M YoY sales | Orga | nic C | Currency | Portfolio | o Total | Portfolio reflects the acquisition of |
|--|--------------------|--------------------------|-----------------|----------------------|-----------------------|--|
| Biopharmaceuticals | 3.9 | % | -3.5% | 0.0% | 0.4% | AZ Electronic Materials |
| Consumer Health | 5.0 | % | -3.7% | 0.0% | 1.3% | Currency headwinds mainly driven by the U.S. dollar in H1 |
| Performance Materials | 3.3 | % | -3.7% | 18.3% | 17.9% | |
| Life Science | 4.1 | % | -3.3% | -0.6% | 0.1% | |
| The Group | 3.9 | % | -3.5% | 2.7% | 3.1% | |
| 9M | oY EBITD | A pre cor | ntributors | [€ m] | | Performance Materials includes AZ |
| 2,458 -41 | -2 | +43 | +21 | +31 | 2,509 | Life Science contributes with solid organic performance |
| | | | | | | Biopharmaceuticals affected by loss of royalty income (Avonex, Enbrel, Humira) |
| EBITDA pre Biopharma- 9M 2013 ceuticals | Consumer Health | Performance Materials | Life Science | Corporate & Other | EBITDA pre 9M 2014 | Corporate & Other includes higher hedging gains versus last year |

Totals may not add up due to rounding

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9M 2014: Stable financials amid royalty income reduction and currency headwinds

| € m] | 9M 2013 | 9M 2014 | Δ | 9M 2014 |
|--|-----------------------|-----------------------|--------|---|
| Sales | 8,064 | 8,315 | 3.1% | Sales increase as organic growth a portfolio offset negative FX effects |
| EBITDA pre Margin (% of sales) | 2,458 30.5% | 2,509 30.2% | 2.1% | EBITDA pre and EPS pre improve solid organic performance and AZ |
| EPS pre [€] | 3.33 | 3.46 | 3.9% | despite loss of royalty incomeOperating cash flow burdened by |
| Operating cash flow | 1,785 | 1,564 | -12.4% | Iower royalties and higher tax paym Jump in working capital reflects |
| [€ m] | Dec 31, 2013 | Sept. 30, 2014 | Δ | consolidation of AZ |
| Net financial debt | 307 | 1,521 | >100% | Increase in headcount includes employees from AZ |
| Working capital | 2,132 | 2,554 | 19.8% | |
| Employees | 38,154 | 39,355 | 3.1% | |
| Net financial of | lebt increases on AZ | acquisition | | |

Reported earnings contain AZ adjustments

| [€ m] | Q3 2013 | Q3 2014 | Δ | Reported results |
|-------------------|---------|---------|--------|---|
| EBIT | 482 | 429 | -11.0% | EBIT down mainly due to royalty terminations and some remaining |
| Financial result | -52 | -57 | 10.4% | inventory adjustments from AZFinancial result impacted by higher |
| Profit before tax | 430 | 372 | -13.6% | time value for LTIP [*] , mitigated by lower interest payments |
| Income tax | -87 | -122 | 39.7% | Tax rate increases due to solely tax-relevant gain from Sigma-Aldrich |
| Tax rate (%) | 20.3% | 32.9% | | acquisition-related FX hedging |
| Net income | 340 | 249 | -26.7% | |
| EPS (€) | 0.78 | 0.57 | -26.9% | |

*Long Term Incentive Plan

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Reported figures impacted by lower royalties and acquisition effects

| [€ m] | 9M 2013 | 9M 2014 | Δ | Reported results |
|-------------------|---------|---------|--------|--|
| EBIT | 1,347 | 1,338 | -0.6% | EBIT flat as organic growth and leaner cost structure are offset by |
| Financial result | -159 | -142 | -10.6% | lower royalties, one-time items & FX Financial result improves on lower interest payments due to bond repayment and CTA* funding Tax rate impacted by Q3 solely tax-relevant gain from sale of Sigma financing derivatives |
| Profit before tax | 1,188 | 1,196 | 0.7% | |
| Income tax | -260 | -313 | 20.5% | |
| Tax rate (%) | 21.9% | 26.2% | | Reduction in net income and EPS driven by higher income tax |
| Net income | 922 | 877 | -4.8% | |
| EPS (€) | 2.12 | 2.02 | -4.7% | |

^{*}Contractual Trust Arrangement

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Biopharmaceuticals: Solid performance supported by all franchises amid royalty income reduction

| [€ m] | 9M 2013* | 9M 2014 | Comments |
|-----------------------|--------------------|----------|--|
| Sales | 4,269 | 4,286 | Organic growth partially offset by adverse currency effects |
| Marketing and selling | -1,365 | -1,322 | Rebif organically stable, as U.S. pricing and Q1 wholesaler |
| Admin | -149 | -164 | restocking overcompensate volume declines due to orals Solid Erbitux performance driven by growth in Emerging Markets |
| R&D | -913 | -1,020 | and support from Japan, while Europe is flat |
| EBIT | 677 | 712 | Strong organic growth of fertility business as a result of good |
| EBITDA | 1,332 | 1,308 | demand for entire portfolio especially from China Marketing and selling benefits from efficiency initiatives |
| EBITDA pre | 1,380 | 1,339 | R&D reflects pipeline prioritization initiatives |
| Margin (% of sales) | 32.3% | 31.2% | Lower profitability owing to royalty decline and FX |
| Sa | les bridge | | 9M 2014 share of group sales |
| €4,269 m 3.9% | -3.5% 0.0% | €4,286 m | Biopharma- |
| | | | 51% ceuticals |
| 9M 2013 Organic C | Currency Portfolio | 9M 2014 | |

*Restated for product reclassification of Neurobion and Floratil from Biopharmaceuticals to Consumer Health

Biopharmaceuticals organic growth by product

Q3 2014 organic sales growth [%] by key product [€ m] 9M 2014 organic sales growth [%] by key product [€ m] Rebif Rebif 1.389 466 460 1.413 232 670 +6% 223 659 147 461 GONAL-0 GONAL-+7% +9% 137 438 117 326 Concor Concor +18% 296 100 104 276 Glucophage Glucophage +6% 302 98 60 174 saizen saizen 175 61 Q3 2013 Q3 2014 ■9M 2014 9M 2013

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Merck KGaA Darmstadt - Germany

Rebif – defending market leadership in Europe; competitive pressure in the U.S.



Erbitux – strong in Emerging Markets



- Sales increase to €232 m as volume gains in all regions outweigh adverse
- Europe with solid organic growth supported by slightly higher volumes
- Strong organic growth in Emerging Markets mainly driven by good demand from private sector in Brazil
- Growth in Japan normalizing as head and neck sales now included

*Australia/Oceania. Africa

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Strong growth in Fertility and General Medicine

Sales evolution Q3 drivers Q3 drivers Fertility Gonal-f sales increase to €147 m with 7.5% organic growth driven by [€ m] 210 all regions Organic 180 Endocrinology with slight organic 150 Q3 2013 Q4 2013 Q1 2014 Q2 2014 Q3 2014 Concor and Thyroid products see Q3 drivers Endocrinology [€ m] 110 3 Organic 95 80 Q3 2013 Q4 2013 Q1 2014 Q2 2014 Q3 2014 General Medicine¹ Q3 drivers [€ m] 450 Organic 400 350 Q3 2013 Q4 2013 Q1 2014 Q2 2014 Q3 2014

- decrease amid a high base last year
- ongoing good demand from EM² drive organic growth of General Medicine¹
- Glucophage growing organically due to healthy demand from EM², partially offset by supply chain issues in Europe

¹includes "Cardiometabolic Care & General Medicine and Others"; ²Emerging Markets

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Biopharmaceuticals pipeline

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Pipeline as of Oktober 31, 2014; ¹Combined with hDM2 inhibitor (SAR405838) from Sanofi, conducted under the responsibility of Sanofi;

²Sponsored by the National Cancer Institute (USA); ³Combined with PI3K/mTOR inhibitor (SAR245409) from Sanofi, conducted under the responsibility of Merck KGaA, Darmstadt, Germany; ⁴Post-approval request by the European Medicines Agency



Consumer Health: Focus on strategic brands in Emerging Markets drives performance

| [€ m] | 9M 2013* | 9M 2014 | Comments | | |
|-----------------------|-----------------|---------|--|--|--|
| Sales | 562 | 569 | Slight increase in sales as good organic growth driven by | | |
| Marketing and selling | -215 | -217 | Emerging Markets is almost offset by FX headwinds | | |
| Admin | -18 | 00 | New strategic brands Neurobion and Floratil drive organic growth mainly from EM supported by consumer oriented marketing | | |
| R&D | -17 | -15 | Europe solid, as demand for Femibion and some local brands i | | |
| EBIT | 126 | 116 | partially offset by soft demand for cough and cold products | | |
| EBITDA | 133 | 123 | Marketing and selling slightly increasing, while shift in promotional spending towards strategic brands continues | | |
| EBITDA pre | 133 | 131 | Slight decrease in profitability due to investments in marketing | | |
| Margin (% of sales) | 23.7% | 23.1% | selling as well as higher cost of sales | | |
| Sale | s bridge | | 9M 2014 share of group sales | | |
| €562 m 5.0% -3 | .7% 0.0% | €569 m | Consumer | | |
| | | | 7% Health | | |
| 9M 2013 Organic Cur | rency Portfolio | 9M 2014 | | | |

*Restated for product reclassification of Neurobion and Floratil from Biopharmaceuticals to Consumer Health

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Performance Materials: Solid performance amid high comparables and currency headwinds

| [€ m] | 9M 2013 | 9M 2014 | Comments |
|-----------------------|--------------------|----------|--|
| Sales | 1,259 | 1,484 | Sales increase as moderate organic growth and portfolio effects |
| Marketing and selling | -117 | -129 | overcompensate for negative FX effects |
| Admin | -22 | -41 | Liquid Crystals with moderate organic growth; last year supported by subsidy program for consumers in China until May 2013 |
| R&D | -107 | -120 | Liquid Crystals flagship technologies see ongoing good demand |
| EBIT | 519 | 441 | Pigments benefits from coating industry demand for Xirallic products |
| EBITDA | 611 | 574 | Cost base reflects portfolio effects from AZ |
| EBITDA pre | 613 | 656 | EBITDA pre increase contains organic growth and contribution from AZ; margin reflects inclusion of AZ |
| Margin (% of sales) | 48.7% | 44.2% | |
| S | ales bridge | | 9M 2014 share of group sales |
| €1,259 m 3.3% | -3.7% 18.3% | €1,484 m | Performance |
| | | | 18% Materials |
| 9M 2013 Organic | Currency Portfolio | 9M 2014 | |

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Life Science: Growth in Process Solutions improves profitability

| [€ m] | 9M 2013 | 9M 2014 | Comments | |
|-----------------------|--------------------|----------|---|--|
| Sales | 1,974 | 1,976 | Sales stable as organic growth is offset by FX mainly driven by | |
| Marketing and selling | -629 | -613 | U.S. dollar and Japanese yen as well as DDS [*] divesture | |
| Admin | -75 | -81 | Process Solutions growth driven by biopharma demand for filtration and single-use products mainly stemming from EM and Europe | |
| R&D | -121 | -119 | Bioscience organically flat, as solid demand for cell culture and | |
| EBIT | 211 | 234 | analysis systems mitigates soft U.S. academia demand | |
| EBITDA | 444 | 464 | Demand for consumables and water purification solutions in Emerging Markets drives organic growth in Lab Solutions | |
| EBITDA pre | 475 | 496 | Profitability increases due to solid volumes and pricing as well a | |
| Margin (% of sales) | 24.1% | 25.1% | ongoing cost discipline in marketing and selling | |
| S | ales bridge | | 9M 2014 share of group sales | |
| €1,974 m 4.1% | -3.3% -0.6% | €1,976 m | Life | |
| | | | 24% Science | |
| 9M 2013 Organic | Currency Portfolio | 9M 2014 | | |

Discovery and Development Solutions

Balance sheet: Financial strength



Totals may not add up due to rounding

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Solid cash flow amid royalty income reduction

[€ m] Q3 2013 Q3 2014 Cash flow drivers Profit after tax 343 250 -93 315 D&A 353 38 D&A reflects AZ impact Changes in provisions 32 89 57 Changes in other assets / liabilities 76 83 7 pipeline terminations and LTIP² Other operating activities -8 -4 4 Changes in working capital 69 -44 -114 drive changes in working capital **Operating cash flow** 827 726 -101 in short-term financial assets Capex rising after slow H1 2014 Investing cash flow -364 -344 -20 Financing cash flow delta reflects -78 thereof Capex¹ -128 -50 **Financing cash flow** -745 90 835

¹Only PPE, not including software; ²Long Term Incentive Plan Totals may not add up due to rounding

- Profit after tax decreases on lower royalty income and higher income tax
- Changes in provisions affected by release of litigation provision which is more than offset by build-up from
- Factoring LY vs. increase in receivables this year as well as higher inventories
- Investing cash flow reflects investments
- €750 m bond repayment last year

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Underlying cash flow strength



*Only PPE, not including software Totals may not add up due to rounding



One-time items in Q3 2014

One-time items in EBIT [€ m] Q3 2014 Q3 2013 One-time items thereof D&A One-time items thereof D&A Biopharmaceuticals 36 15 13 0 **Consumer Health** 0 4 0 1 -5 0 25 **Performance Materials** 0 Life Science 12 0 11 0 Corporate & Other 4 0 26 4 Total 49 15 79

Totals may not add up due to rounding

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One-time items in 9M 2014

One-time items in EBIT [€ m] 9M 2013 9M 2014 One-time items thereof D&A One-time items thereof D&A Biopharmaceuticals 93 45 34 4 **Consumer Health** 0 0 8 0 3 81 **Performance Materials** 1 0 Life Science 31 0 32 0 Corporate & Other 42 34 0 4 Total 161 8 46 198

Totals may not add up due to rounding

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Financial calendar

| Date | Event | 16 |
|-------------------|-----------------------------|--|
| March 03, 2015 | Q4 2014 Earnings release | |
| April 17, 2015 | Annual General Meeting 2015 | 24 17 |
| May 19, 2015 | Q1 2015 Earnings release | |
| August 06, 2015 | Q2 2015 Earnings release | SO SS CONTRACTOR |
| November 12, 2015 | Q3 2015 Earnings release | The second secon |

Investor Relations contact details



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